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ABSTRACT

Each of these newsletters, produced by the ERIC Information Analysis Center for Science, Mathematics, and Environmental Education, contains information concerning center publications and activities, as well as other items considered of interest to researchers and educators of various educational levels. One of the emphases in Vol. 2, No. 2, is a descriptive listing of materials contained in Pacesetters in Innovation, Fiscal Year 1967. Vol. 2, No. 3 contains a listing of documents related to science and mathematics education included in Research in Education for 1968. (PEB)

SEIAC

ERIC

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SUPPLEMENTAL BIBLIOGRAPHIES AVAILABLE FROM SEIAC

The second series of General Bibliographies are now available from the Clearinghouse. Single copies of each are free and may be requested as long as the supply lasts. The bibliographies will appear in Research in Education and will be available on microfiche and in hard copy from the ERIC Document Reproduction Service. The bibliographies are listed below.

1. Bibliography 11, Instructional Procedures
Supplements Bibliography 1
2. Bibliography 12, Teacher Education
Supplements Bibliography 2
3. Bibliography 13, Science Equipment and Materials, Instructional Materials
Supplements Bibliography 3
4. Bibliography 14, Curriculum
Supplements Bibliography 4
5. Bibliography 15, Achievement
Supplements Bibliography 5
6. Bibliography 16, Teacher Resource Materials
Supplements Bibliography 6
7. Bibliography 17, Science and Society, History of Science Education, General Studies and Surveys, Science History
Supplements Bibliography 7
8. Bibliography 18, Legislative Acts and Reports, Science Facilities, Administration and Supervision
Supplements Bibliography 8
9. Bibliography 19, Evaluation, Education Objectives, Learning Theory and Processes, Research Methodology
Supplements Bibliography 9
10. Bibliography 20, Teacher Characteristics, Student Characteristics
Supplements Bibliography 10

TWO CLEARINGHOUSES RECENTLY ESTABLISHED

Two ERIC Clearinghouses have been recently established. The Clearinghouse on Teacher Education will be concerned with general problems of teacher education, including both preservice and inservice preparation of teachers and preparation of teacher educators. Clearinghouses with specific areas, such as SEIAC, will continue to process documents and disseminate information related to their special fields. The new Clearinghouse provides coverage for general concerns and special areas previously not covered. The Clearinghouse is under the direction of Dr. Joel Burdin and located at 1156 15th Street, N.W., Washington, D.C. 20005.

The Clearinghouse on Higher Education will be located at George Washington University in Washington, D.C. It will be concerned with general areas of higher education. Clearinghouses with specific areas will continue to process materials in those areas.

INFORMATION CONCERNING THE ERIC SYSTEM

The United States Office of Education recently published an extremely useful pamphlet, "How to Use ERIC." The publication provides information concerning what ERIC is, what ERIC does, and how ERIC can be used. Procedures for obtaining ERIC documents and products are detailed. Also included are the addresses of the current ERIC Clearinghouses. You may obtain copies by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The catalog number is FS5,212:12037 and the price is 20 cents each.

INCREASE IN SUBSCRIPTION RATE

An increase in the price of Research in Education was recently announced by the United States Office of Education. Beginning January 1, 1969 a yearly subscription to Research in Education is \$21.00. A foreign subscription is \$26.25. Existing subscriptions are not affected until current subscriptions expire.

SIE INSTITUTES USER CHARGES

The Science Information Exchange (SIE), a part of the Smithsonian Institute, is managed and funded by the National Science Foundation. It maintains a data bank of research in progress in the behavioral sciences. To date all services with the exception of Catalogs have been provided without charge.

However, recent budget modifications and expenditure ceilings have accelerated SIE's move to a policy of user charges. Effective December 1, 1968, all requests from non-Federal agencies and individuals will be provided on a fee-for-service basis while Federal agencies will be charged for only two categories of Requests: Name Requests (Investigator Reports) and Automatic Selective Dissemination.

Effective July 1, 1969, all requests—Federal and non-Federal—will be subject to a service fee. For your convenience Types of Service and Schedules and Service Fees provided by SIE are listed below. SIE services and products range from a single request for a document Notice of Research Project (NRP) - to the preparation of catalogs covering large subject fields.

I. The following products are commonly known as "document retrieval":

Subject Search Question involves "subject" requests in which the user asks for all NRPs related to a specified subject or topic. They are comparable to a bibliographic search.

Investigator Search is in response to a request for all NRPs associated with a given name (investigator).

Accession Number Retrieval is in response to a request for NRPs identified by agency accession (or contract) number or by SIE Accession Number.

Automatic Distribution is a service given to Federal agencies and foundations which request automatic return of extra copies of each NRP that they register with the Exchange.

II. The following are compilations of extracted data elements and are not "document-retrieval" per se. These services are primarily used by research or program directors and administrators.

Standard Computer Tabulation of Projects are generated by computer using one of a variety of standard computer programs. These tabulations include various combinations of the following data elements: supporting agency, principal investigator, accession number, performing organization, location and title of project.

Organizational Programs are generated by computer to the specification of the agency concerned.

Subject-filed Catalogs involve the collection and identification of all Notices of Research Projects (NRPs) pertinent and related to a broad subject field. Example: Water Resources Research Catalog.

Special Compilations are generated by computer to the specification of the requestor.

SIE Schedules and Service Fees

- | | |
|---|--------------------------------------|
| 1. Subject Searches per Question: | \$60.00 screened
30.00 unscreened |
| 2. Investigator Searches per name | 3.00 (\$10.00 minimum) |
| 3. Standard Computer Tabulation of projects | 120.00 plus 35¢ per page print |
| 4. Accession No. Retrieval | 1.00 (\$5.00 minimum) |
| 5. Organizational Programs | Negotiated |
| 6. Subject-field Catalogs | Negotiated |
| 7. Special Compilations | Negotiated |
| 8. Automatic Distribution of Agency NRPs | .10 per NRP
(Billed Quarterly) |

TITLE III (PACE) PROJECTS ON SCIENCE AND MATHEMATICS EDUCATION

Information analysts at SEIAC have reviewed Pace-setters in Innovation, Fiscal Year 1967 (OE-20103-67) to identify planning and operational grants related to science and mathematics education. The bibliography included in this newsletter is divided into three sections--(1) documents related to science education, (2) documents related to mathematics education, and (3) documents related to both science and mathematics education.

Each entry provides citation data and index terms for the document. Prices listed are current EDRS prices. When ordering documents, be certain to include the ERIC document number of each document and indicate whether you desire microfiche (MF) or hard copy (HC). If your order does not exceed \$3.00, a 50¢ handling charge should be included. Requests for documents should be addressed to EDRS, The National Cash Register Company, 4936 Fairmont Avenue, Bethesda, Maryland 20014.

I. SCIENCE EDUCATION

ES 001 082

INSTRUCTIONAL SYSTEM APPROACH TO THE IMPLEMENTATION OF STUDENT MASTERY IN PHYSICAL AND EARTH SCIENCES THROUGH INDIVIDUALIZED INSTRUCTIONAL METHODS.

CALIF., HANFORD, KINGS COUNTY Supt. OF SCHOOLS
EDRS PRICE MF-\$0.50 HC-\$2.72 68P.

DESCRIPTORS- *GRADES 7-12, *INSERVICE TEACHER EDUCATION, *PHYSICAL SCIENCES, *PROGRAMED INSTRUCTION, *SYSTEMS APPROACH, INDIVIDUAL INSTRUCTION.

ES 001 085

DEVELOPMENT PROGRAM TO ATTAIN STATED BEHAVIORAL OBJECTIVES IN SCIENCE - A SYSTEM APPROACH.

CALIF., PALO ALTO, UNIFIED SCHOOL DISTRICT
EDRS PRICE MF-\$0.50 HC-\$2.60 65P.

DESCRIPTORS- *BIOLOGY, *CURRICULUM PLANNING, *GRADES 7-12, *PHYSICAL SCIENCES, * SCIENCE COURSE IMPROVEMENT PROJECT, * STUDENT CHARACTERISTICS, *SYSTEMS APPROACH, HUMAN ENGINEERING, INFORMATION SYSTEMS, MULTISENSORY LEARNING, OPERATIONS RESEARCH.

ES 001 097

TALCOTT MOUNTAIN SCIENCE CENTER FOR STUDENT INVOLVEMENT.

CONN., AVON, BOARD OF EDUCATION
EDRS PRICE MF-\$0.50 HC-\$3.52 88P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *ASTRONOMY, *GRADES 1-6, *GRADES 7-12, *RADIO, *RESOURCE CENTERS, ADVANCED PROGRAMS, ELECTRONICS.

ES 001 111

MARINE SCIENCE STATION.

FLA., INVERNESS, CITRUS COUNTY Bd. OF PUB. INST.
EDRS PRICE MF-\$0.50 HC-\$3.52 88P.

DESCRIPTORS- *CONSERVATION EDUCATION, *GRADES 1-6, *GRADES 7-12, *NATURAL SCIENCES, *OCEANOLOGY, *OUTDOOR EDUCATION, *RESOURCE CENTERS, CAMPING, FIELD TRIPS, INSERVICE TEACHER EDUCATION, MUSEUMS, SCIENCE LABORATORIES.

ES 001 119

OPERATING A PILOT SUMMER OUTDOOR EDUCATION EXPERIENCE FOR APPROXIMATELY 200 STUDENTS IN THE COLLEGE COMMUNITY SCHOOL AND IMMEDIATE AREA.

IOWA, CEDAR RAPIDS, COLLEGE COMMUNITY Bd. OF EDUC.

EDRS PRICE MF-\$0.25 HC-\$1.16 29P.

DESCRIPTORS- *ENRICHMENT PROGRAMS, *GRADES 7-12, *OUTDOOR EDUCATION, COMMUNITY RESOURCES, FIELD TRIPS, INDEPENDENT STUDY.

ES 001 128

REGIONAL EDUCATIONAL AND CULTURAL PARK, MAINE, BIDDEFORD, BOARD OF EDUCATION

EDRS PRICE MF-\$0.50 HC-\$3.36 84P.

DESCRIPTORS- *ELEMENTARY SCIENCE, *GRADES 1-6, *GRADES 7-12, *HUMANITIES, *INSERVICE TEACHER EDUCATION, *MASTER PLANS, *READING, *SOCIO-PSYCHOLOGICAL SERVICES, EDUCATIONAL FACILITIES, GUIDANCE, INSTRUCTIONAL MATERIALS CENTERS, MOBILE EDUCATIONAL SERVICES, PILOT PROJECTS, TEACHING TECHNIQUES.

ES 001 135

AUDIOVISUAL TUTORING SYSTEM.

MASS., BOYLSTON, BERLIN-BOYLSTON REGIONAL SCH. COMM.

EDRS PRICE MF\$0.25 HC-\$0.60 15P.

DESCRIPTORS- *AUDIOVIDEO LABORATORIES, *BIOLOGY, *GRADE 10, *SELF PACING MACHINES, AUTOINSTRUCTIONAL AIDS, CARRELS.

ES 001 137

SUPPLEMENTARY EDUCATIONAL CENTER.

MASS., WORCESTER, PUBLIC SCHOOLS

EDRS PRICE MF-\$0.75 HC-\$5.36 134P.

DESCRIPTORS- *GRADES 1-6, *GRADES 7-12, *INSERVICE PROGRAMS, *INSTRUCTIONAL MATERIALS CENTERS, *PERCEPTUALLY HANDICAPPED, *PLANETARIUMS, *READING CLINICS, ASTRONOMY, OCEANOLOGY, PRESERVICE EDUCATION, PROJECTION EQUIPMENT, PSYCHOMOTOR SKILLS, READING DIFFICULTY.

ES 001 140

DEVELOPING A SUMMER INSTITUTE IN THE ARTS
AND SCIENCES FOR NORTHERN BERKSHIRE COUNTY.
MASS., WILLIAMSTOWN, MT. GREYLOCK REG. SCH.
DIST.

EDRS PRICE MF-\$0.25 HC-\$0.68 17P.

DESCRIPTORS- *FINE ARTS, *SCIENCES, *SUMMER
PROGRAMS, *TEENAGERS, COMMUNICATION PRO-
BLEMS, COMMUNITY RESOURCES.

ES 001 160

OUTDOOR EDUCATION CENTER.
N. MEX., ALBUQUERQUE, PUBLIC SCHOOLS

EDRS PRICE MF-\$0.25 HC-\$1.40 35P.

DESCRIPTORS- *GRADE 5, *GRADE 6, *OUTDOOR
EDUCATION, CURRICULUM ENRICHMENT, FIELD
TRIPS, INSERVICE TEACHER EDUCATION, LABORA-
TORIES, PARENT PARTICIPATION.

ES 001 186

RADIATION SCIENCE SEMINAR.
PA., WILKES-BARRE, CITY SCHOOL DISTRICT

EDRS PRICE MF-\$0.50 HC-\$3.60 90P.

DESCRIPTORS- *ADVANCED PROGRAMS, *ATOMIC
THEORY, *GRADES 7-12, *LABORATORY EXPERI-
MENTS, BIOLOGY, CHEMISTRY, EVENING PROGRAMS,
FIELD TRIPS, FILM-STRIPS, INDUSTRY, PHYSICS,
RADIATION TECHNOLOGY, VIDEO TAPE RECORDINGS,
WEEKEND PROGRAMS.

ES 001 190

TEXAS GULF COAST SCIENCE EDUCATIONAL RE-
SOURCES CENTER.

TEX., HOUSTON, INDEPENDENT SCHOOL DISTRICT
EDRS PRICE MF-\$1.30 HC-\$9.04 226P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *DEM-
ONSTRATION CENTERS, *GRADES 1-6, *GRADES
7-12, *INSERVICE TEACHER EDUCATION, *PILOT
PROJECTS, *RESOURCE CENTERS, ASTRONOMY,
BIOLOGICAL SCIENCES, BOTANY.

ES 001 221

AIR AGE VOCATIONAL PROGRAM.
COLO., AURORA, ADAMS-ARAPAHOE SCHOOL DIST.
28-J

EDRS PRICE MF-\$0.50 HC-\$2.36 59P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *AVIA-
TION MECHANICS, *GRADES 7-12, *VOCATIONAL ED-
UCATION, VOCATIONAL COUNSELING.

ES 001 230

LOWELL ENVIRONMENTAL ARTS AND SCIENCE
CENTER.

MASS., LOWELL, PUBLIC SCHOOLS

EDRS PRICE MF-\$0.50 HC-\$3.64 91P.

DESCRIPTORS- *CONSERVATION EDUCATION, *EN-
VIRONMENTAL INFLUENCES, *GRADES 1-6, *GRADES
7-12, *OUTDOOR EDUCATION, INSERVICE PROGRAMS,
PILOT PROJECTS.

ES 001 239

DIVERSIFIED OUTDOOR EDUCATION.

N. C., WENTWORTH, ROCKINGHAM COUNTY SCHOOLS

EDRS PRICE MF-\$0.50 HC-\$3.12 78P.

DESCRIPTORS- *CONSERVATION EDUCATION, *ED-
UCABLE MENTALLY HANDICAPPED, *GRADES 1-6,
*GRADES 7-12, *OUTDOOR EDUCATION, *REMEDI-
AL READING PROGRAMS, *SUMMER PROGRAMS, CAMP-
ING, FIELD TRIPS.

ES 001 244

ITINERANT RESOURCE SCIENCE PROJECT.

PA., WILKINSBURG, BOROUGH SCHOOL DISTRICT

EDRS PRICE MF-\$0.25 HC-\$1.16 25P.

DESCRIPTORS- *ELEMENTARY SCIENCES, *GRADES
1-6, *INSERVICE TEACHER EDUCATION, *LABORA-
TORY EXPERIMENTS, *RESOURCE TEACHERS.

ES 001 247

SOUTH ARKANSAS CURRICULUM AND SERVICES LAB-
ORATORY.

ARK., EL DORADO, SCHOOL DISTRICT 15

EDRS PRICE MF-\$0.50 HC-\$5.00 125P.

DESCRIPTORS- *AUDIOVISUAL AIDS, *BOTANY, *ENG-
LISH INSTRUCTION, *GRADES 1-6, *GRADES 7-12,
*INSERVICE TEACHER EDUCATION, *REMEDI-
AL READING, *SCIENCES, CONSULTANTS, GRAMMAR,
INDUCTIVE METHODS, SCIENCE LABORATORIES,
STUDENT MOTIVATION.

ES 001 250

FLOATING MARINE SCIENCE LABORATORY.

CALIF., SANTA ANA, ORANGE COUNTY SUPT. OF
SCHOOLS

EDRS PRICE MF-\$0.50 HC-\$3.20 80P.

DESCRIPTORS- *BIOLOGY, *GRADES 7-12, *OCEAN-
OLOGY, *PHYSICAL SCIENCES, *SCIENCE LABORA-
TORIES, CHEMISTRY, PHYSICS.

ES 001 251

APPLICATION FOR A PLANNING GRANT TO PLAN A SUPPLEMENTARY EDUCATION CENTER FOR CONTRA COSTA COUNTY.

CALIF., PLEASANT HILL, CONTRA COSTA COUNTY SUPT.

EDRS PRICE MF-\$0.50 HC-\$2.80 70P.

DESCRIPTORS- *ABLE STUDENTS, *CONSERVATION EDUCATION, *GRADES 1-6, *GRADES 7-12, *HEALTH EDUCATION, *OCCUPATIONAL INFORMATION, *READING DEVELOPMENT, ADMINISTRATIVE ORGANIZATION, FEASIBILITY STUDIES, SYSTEMS DEVELOPMENT.

ES 001 254

PROGRAM OF OUTDOOR EDUCATION (TITLE SUPPLIED).

IDAHO, AMERICAN FALLS, SCHOOL DISTRICT 381

EDRS PRICE MF-\$0.50 HC-\$2.36 59P.

DESCRIPTORS- *CONSERVATION EDUCATION, *CURRICULUM ENRICHMENT, *FIELD EXPERIENCE PROGRAMS, *GRADE 7, *RESOURCE TEACHERS, *SUMMER PROGRAMS, CAMPING, SCHOOL COMMUNITY PROGRAMS.

ES 001 259

CONSERVATION EDUCATION.

MONT., GREAT FALLS, SCHOOL DISTRICT 1

EDRS PRICE MF-\$0.25 HC-\$2.16 54P.

DESCRIPTORS- *CONSERVATION EDUCATION, *FIELD EXPERIENCE PROGRAMS, *GRADES 1-6, *GRADES 7-12, *INSERVICE TEACHER EDUCATION, *OUTDOOR EDUCATION, CAMPING, CURRICULUM ENRICHMENT, PRESCHOOL CHILDREN.

ES 001 261

EPIC--EDUCATIONAL PROJECT TO IMPLEMENT CONSERVATION.

MASS., WESTFIELD, SCHOOL COMMITTEE

EDRS PRICE MF-\$0.25 HC-\$1.40 35P.

DESCRIPTORS- *ART, *CONSERVATION EDUCATION, *GRADES 1-6, *GRADES 7-12, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *SOCIAL SCIENCES, INSERVICE PROGRAMS, PILOT PROJECTS.

ES 001 291

SCIENCE INSERVICE TRAINING PROJECT - FULTON COUNTY.

PA., MC CONNELLSBURG, FULTON COUNTY SCHOOL BOARD

EDRS PRICE MF-\$0.25 HC-\$1.00 25P.

DESCRIPTORS- *ELEMENTARY SCHOOL SCIENCE, *INSERVICE TEACHER EDUCATION, *TEACHING TECHNIQUES, SCIENCE EQUIPMENT, SCIENCE EXPERIMENTS.

ES 001 309

BISTATE PROJECT FOR THE IMPROVEMENT OF INSERVICE TEACHER EDUCATION THROUGH SCIENCE.

MO., TARKIO, SCHOOL DISTRICT R-1

EDRS PRICE MF-\$0.50 HC-\$3.36 84P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *SCIENCE PROGRAMS, *TEACHER ATTITUDES, ELEMENTARY EDUCATION, INSTRUCTIONAL MATERIALS, SUMMER PROGRAMS.

ES 001 310

OCEANOGRAPHIC EDUCATION CENTER.

MASS., FALMOUTH, TOWN SCHOOL COMMITTEE

EDRS PRICE MF-\$0.25 HC-\$1.52 38P.

DESCRIPTORS- *EDUCATIONAL SERVICE CENTERS, *INSTRUCTIONAL MATERIALS, *INSTRUCTIONAL MATERIALS CENTERS, *OCEANOLOGY, ADULT EDUCATION, INSERVICE TEACHER EDUCATION, SUMMER PROGRAMS.

ES 001 321

REGIONAL CENTER FOR STUDY AND IMPROVEMENT OF ELEMENTARY SCIENCE EDUCATION.

N. Y., SCOTTSVILLE, WHEATLAND-CHILI CENT. 1

EDRS PRICE MF-\$0.50 HC-\$3.64 91P.

DESCRIPTORS- *DEMONSTRATION CENTERS, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS CENTERS, CONSULTANTS, CURRICULUM DEVELOPMENT, INSERVICE TEACHER EDUCATION, SCIENCE EDUCATION, WORKSHOPS.

ES 001 332

SUPPLEMENTARY EDUCATIONAL CENTER - OPERATIONAL GRANT.

N. C., SALISBURY, CITY BOARD OF EDUCATION
EDRS PRICE MF-\$0.50 HC-\$2.76 69P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *DEMONSTRATION CENTERS, *GRADES 1-6, *GRADES 7-12, *INSTRUCTIONAL MATERIALS CENTERS, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *CULTURAL ENRICHMENT, FINE ARTS, HISTORY, INSERVICE TEACHER EDUCATION, SCIENCE LABORATORIES.

ES 001 357

OKEFENOKEE ELEMENTARY SCIENCE CURRICULUM PROJECT.

GA., WAYCROSS, WARE COUNTY BOARD OF EDUCATION

EDRS PRICE MF-\$0.25 HC-\$1.40 35P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *ELEMENTARY SCIENCE, *GRADES 1-6, *SCIENCE COURSE IMPROVEMENT PROJECT, AUDIOVISUAL AIDS, COOPERATIVE PROGRAMS, INSERVICE TEACHER EDUCATION.

ES 001 356

RESOURCE-USE OUTDOOR EDUCATION CENTER.

FLA., PERRY, TAYLOR COUNTY BD. OF PUBLIC INSTRUCTION

EDRS PRICE MF-\$0.50 HC-\$4.75 109P.

DESCRIPTORS- *CONSERVATION EDUCATION, *GRADES 1-6, *GRADE 7-12, *NATURAL RESOURCES, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *RESOURCE CENTERS, AGRICULTURE, INSERVICE TEACHER EDUCATION, PRESERVICE EDUCATION.

ES 001 364

OUTDOOR LABORATORY OF NATURAL ENVIRONMENTAL SCIENCE.

MAINE, WINDHAM, TOWN SCHOOL COMMITTEE

EDRS PRICE MF-\$0.25 HC-\$0.84 21P.

DESCRIPTORS- *BIOLOGY, *FIELD EXPERIENCE PROGRAMS, *GRADES 1-6, *GRADES 7-12, *OUTDOOR EDUCATION, *CONSERVATION EDUCATION.

ES 001 366

REGIONAL ACADEMIC MARINE PROGRAM.

MAINE, KITTELY POINT COMM. R.W. TRAIL ACADEMY

EDRS PRICE MF-\$0.50 HC-\$2.44 61P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *INTERDISCIPLINARY APPROACH, *OCEANOLOGY, *RESOURCE CENTERS, *SCIENCE LABORATORIES, AUDIOVISUAL AIDS, SCIENCE INSTRUCTION, SUMMER PROGRAMS.

ES 001 396

PROPOSAL FOR DEVELOPING CURRICULUM THAT WOULD INTEGRATE "NATUREALM" WITH EDUCATIONAL PROGRAMS IN THE COMMONWEALTH.

PA., DUNCANSVILLE, APPALACHIAN REG. INSTR.
EDRS PRICE MF-\$0.50 HC-\$2.52 63P.

DESCRIPTORS- *CONSERVATION EDUCATION, *CURRICULUM DEVELOPMENT, *GRADES 1-6, *GRADES 7-12, *OUTDOOR EDUCATION, NATUREALM.

ES 001 402

NORTHEASTERN SOUTH DAKOTA SUPPLEMENTARY EDUCATION SERVICE CENTER.

S. DAK., WEBSTER, INDEP. SCHOOL DISTRICT 101
EDRS PRICE MF-\$0.25 HC-\$0.56 14P.

DESCRIPTORS- *EDUCATIONAL RESEARCH, *GRADES 1-6, *GRADES 7-12, *OUTDOOR EDUCATION, *RURAL SCHOOL SYSTEMS, CAMPING, DATA COLLECTION.

ES 001 408

COOPERATIVE AEROSPACE EDUCATION PROJECT FOR RENTON, KENT, AND FEDERAL WAY SCHOOL DISTRICTS.

WASH., RENTON SCHOOL DISTRICT 403

EDRS PRICE MF-\$0.25 HC-\$1.20 30P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *CURRICULUM DEVELOPMENT, *INDUSTRY, *INSERVICE TEACHER EDUCATION, *INTERDISCIPLINARY APPROACH, SOCIOECONOMIC INFLUENCES, SUMMER WORKSHOPS.

ES 001 436

OUT-OF-DOORS, A SUMMER SCIENCE PROGRAM FOR ELEMENTARY AND SECONDARY SCHOOL STUDENTS.

MD., ELKTON, CECIL COUNTY PUBLIC SCHOOLS
EDRS PRICE MF-\$0.25 HC-\$1.92 48P.

DESCRIPTORS- *CONSERVATION EDUCATION, *GRADES 1-6, *GRADES 7-12, *HIGH ACHIEVERS, *OUTDOOR EDUCATION, *SCIENCE EDUCATION, *SUMMER PROGRAMS, CAMPING, INDIVIDUAL INSTRUCTION.

ES 001 441

LIBERTY PROGRAM (TITLE SUPPLIED).

MASS., CONCORD, CONCORD-CARLISLE REGIONAL SCH. DIST.

EDRS PRICE MF-\$0.75 HC-\$6.84 171P.

DESCRIPTORS- *CONSERVATION EDUCATION, *INSTRUCTIONAL IMPROVEMENT, *PROGRAMED INSTRUCTION, *RESOURCE CENTERS, *SPECIAL EDUCATION, *VOCATIONAL DEVELOPMENT, CURRICULUM DEVELOPMENT, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS.

ES 001 454

APPLICATION FOR FEDERAL GRANT TO PLAN A SUPPLEMENTARY EDUCATIONAL CENTER AND SERVICES.

N. H., HOLDERNESS, SCHOOL DISTRICT

EDRS PRICE MF-\$0.25 HC-\$1.08 27P.

DESCRIPTORS- *CONSERVATION EDUCATION, *EDUCATION SERVICE CENTERS, *NATURAL SCIENCES, *PHYSICAL SCIENCES, CAREER PLANNING, CREATIVE ACTIVITIES, EXHIBITS, HOBBIES, INSERVICE TEACHER EDUCATION.

ES 001 456

IMPLEMENTATION OF A PROCESS-ORIENTED SCIENCE PROGRAM IN THE ELEMENTARY SCHOOLS OF MONTCLAIR, NEW JERSEY.

N. J., MONTCLAIR, BOARD OF EDUCATION

EDRS PRICE MF-\$0.25 HC-\$1.36 34P.

DESCRIPTORS- *ELEMENTARY SCHOOL SCIENCE, *GRADES 1-6, *INDIVIDUALIZED PROGRAMS, *INSERVICE TEACHER EDUCATION, *SCIENCE COURSE IMPROVEMENT PROJECT, *SKILL DEVELOPMENT, TEACHER AIDES.

ES 001 458

APPLICATION FOR FEDERAL GRANT TO ESTABLISH, OPERATE, AND MAINTAIN A SUPPLEMENTARY EDUCATIONAL CENTER AND SERVICES.

N. MEX., ROSWELL, MUNICIPAL SCHOOLS

EDRS PRICE MF-\$0.25 HC-\$1.46 37P.

DESCRIPTORS- *CROSS CULTURAL TRAINING, *CULTURAL CENTERS, *CULTURAL ENRICHMENT, *CURRICULUM ENRICHMENT, *NATURAL SCIENCES ARCHAEOLOGY, ART, ASTRONOMY, GEOLOGY, HISTORY, MUSIC, SCIENCE TEACHING CENTERS.

ES 001 484

EDUCATIONAL PARK OF SCIENCES, ARTS, AND VOCATIONAL COUNSELING.

VA., NORFOLK, CITY SCHOOL BOARD

EDRS PRICE MF-\$0.50 HC-\$2.72 68P.

DESCRIPTORS- *FINE ARTS, *INTERDISCIPLINARY APPROACH, *RESOURCE CENTERS, *SCIENCE EDUCATION, *VOCATIONAL COUNSELING, HIGH ACHIEVERS, INSERVICE TEACHER EDUCATION, MUSEUMS, SCIENCE LABORATORIES.

ES 001 490

CENTER FOR THE DEVELOPMENT OF LOCALIZED INSTRUCTIONAL MATERIALS.

WIS., MADISON, JOINT DISTRICT 8

EDRS PRICE MF-\$0.50 HC-\$2.72 68P.

DESCRIPTORS- *CITY GOVERNMENT, *COMMUNITY RESOURCES, *CULTURAL ENVIRONMENT, *HISTORY, *INSTRUCTIONAL MATERIALS CENTERS, *NATURAL SCIENCES, AUDIOVISUAL AIDS.

ES 001 514

EDUCATION COOPERATIVE (WEST MET).

MASS., WELLESLEY HILLS, WELLESLEY PUBLIC SCHOOLS

EDRS PRICE MF-\$1.00 HC-\$8.32 208P.

DESCRIPTORS- *COOPERATIVE PROGRAMS, *CULTURAL ENRICHMENT, *EDUCATION SERVICE CENTERS, *SCIENCE PROGRAMS, *SPECIAL EDUCATION, ASTRONOMY, DANCE, FINE ARTS, INSTRUCTIONAL FILMS, INSTRUCTIONAL MATERIALS, MENTAL RETARDATION, MUSIC, NATURAL SCIENCES, THEATER ARTS.

ES 001 515

PROJECT LIGHTHOUSE - SOUTH SHORE SCHOOL SYSTEM CENTER.

MASS., MARSHFIELD, PUBLIC SCHOOLS

EDRS PRICE MF-\$0.75 HC-\$7.68 192P.

DESCRIPTORS- *COMMUNITY RESOURCES, *EXCEPTIONAL CHILDREN, *LANGUAGE ARTS, *NATURAL RESOURCES, *OUTDOOR EDUCATION, CULTURAL BACKGROUND, FIELD TRIPS, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS, MOBILE EDUCATIONAL SERVICES, SPECIAL EDUCATION, STUDENT RESEARCH.

ES 001 545

LIFE SCIENCE EDUCATION CENTER.

TEX., CORPUS CHRISTI, INDEPENDENT SCHOOL

DISTRICT

EDRS PRICE MF-\$0.75 HC-\$5.92 148P.

DESCRIPTORS- *INSERVICE TEACHER EDUCATION, *INSTRUCTIONAL MATERIALS CENTERS, *MUSEUMS, *NATURAL SCIENCES, *OCEANOLOGY, *RESOURCE CENTERS, COMMUNITY RESOURCES, ELEMENTARY SCHOOL SCIENCE, REALIA.

ES 001 546

INTEGRATED ELECTRICITY - ELECTRONICS PROGRAM BETWEEN INDUSTRY AND SMALL SCHOOLS.

TEX., TRINIDAD, INDEPENDENT SCHOOL DISTRICT

EDRS PRICE MF-\$0.25 HC-\$1.04 26P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *ELECTRICITY, *ELECTRONICS, *GRADES 7-12, *INDUSTRIAL ARTS, *VOCATIONAL EDUCATION, COMMUNITY INVOLVEMENT.

ES 001 561

PROJECT GOLD MIND.

CALIF., WOODLAND, YOLO COUNTY SCHOOLS

EDRS PRICE MF-\$0.50 HC-\$3.44 86P.

DESCRIPTORS- *COMMUNITY RESOURCES, *CULTURAL ENRICHMENT, *CURRICULUM DEVELOPMENT, *EDUCATION SERVICE CENTERS, *NATURAL SCIENCES, *OCCUPATIONAL GUIDANCE, CAMPING, EXHIBITS, FIELD TRIPS, FILM PRODUCTION, MUSIC, THEATER ARTS.

ES 001 574

COOPERATIVE SUMMER SCHOOL CAMP.

COLO., ALAMOSA, SAN LUIS VALLEY BD. OF COOP.

SVCS.

EDRS PRICE MF-\$0.25 HC-\$1.92 48P.

DESCRIPTORS- *CAMPING, *CULTURAL ENRICHMENT, *GRADES 1-6, *GRADES 7-12, *INTERPERSONAL RELATIONSHIP, *OUTDOOR EDUCATION, CULTURALLY DISADVANTAGED, DIAGNOSTIC TESTS (EDUCATION), EDUCATIONAL IMPROVEMENT, GIFTED, INSERVICE TEACHER EDUCATION, PHYSICALLY HANDICAPPED, RECREATIONAL ACTIVITIES, SUMMER PROGRAMS, WEEKEND PROGRAMS.

ES 001 576

EARTH AND SPACE SCIENCE TEACHING AND STUDY CENTER.

FLA., TAVARES, LAKE COUNTY BOARD OF PUBLIC INST.

EDRS PRICE MF-\$0.75 HC-\$5.36 134P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *EARTH SCIENCE, *GRADES 1-6, *GRADES 7-12, *SCIENCE TEACHING CENTERS, DEMONSTRATION PROGRAMS, INDEPENDENT STUDY, INSERVICE TEACHER EDUCATION.

ES 001 585

UTILIZATION OF OUTDOOR EDUCATION ACTIVITIES TO ENRICH AND ENHANCE LEARNING K-12 PROGRAM.

ILL., DEERFIELD, SCHOOL DISTRICT 109

EDRS PRICE MF-\$0.25 HC-\$1.64 41P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *GRADES 1-6, *GRADES 7-12, *INTERPERSONAL RELATIONSHIP, *LEARNING MOTIVATION, *OUTDOOR EDUCATION, *STUDENT ATTITUDES, FIELD TRIPS, INTERDISCIPLINARY APPROACH.

ES 001 616

OUTDOOR LABORATORY IN FIELD ECOLOGY AND ESTABLISHMENT OF AN ECOLOGICAL MUSEUM.

MO., HIGGINSVILLE, SCHOOL DISTRICT C-1

EDRS PRICE MF-\$0.50 HC-\$2.56 64P.

DESCRIPTORS- *ECOLOGY, *FIELD STUDIES, *GRADES 7-12, *INTERDISCIPLINARY APPROACH, *MUSEUMS, *OUTDOOR EDUCATION, BIOLOGY, DISCOVERY PROCESSES, SCIENCE LABORATORIES, SCIENTIFIC METHODOLOGY.

ES 001 621

OPERATIONAL ASTRONOMY - THE EARTH AND BEYOND.

N. J., CRANFORD, BOARD OF EDUCATION

EDRS PRICE MF-\$0.25 HC-\$2.08 52P.

DESCRIPTORS- *ASTRONOMY, *CURRICULUM DEVELOPMENT, *GIFTED, *GRADES 1-6, *GRADES 7-12, *SCIENCE LABORATORIES, ADULT EDUCATION, INSERVICE TEACHER EDUCATION.

ES 001 625

SUPPLEMENTARY EDUCATIONAL MUSEUM AND RESOURCE CENTER FOR CLINTON, ESSEX, FRANKLIN, AND HAMILTON COUNTIES.

N. Y., ELLENBURG DEPOT, CLINTON COUNTY BD. EDUC. SVCS.

EDRS PRICE MF-\$0.25 HC-\$1.36 34P.

DESCRIPTORS- *COMMUNITY RESOURCES, *HISTORY, *MUSEUMS, *NATURAL SCIENCES, *RESOURCE CENTERS, *SOCIAL STUDIES, BUS TRANSPORTATION, CURRICULUM ENRICHMENT, FIELD TRIPS, INSTRUCTIONAL MATERIALS.

ES 001 630

DEVELOPMENT OF A UNIQUE EDUCATIONAL AND CULTURAL MARINE SCIENCE CENTER.

N. C., BEAUFORT, CARTERET COUNTY BOARD OF EDUC.

EDRS PRICE MF-\$0.50 HC-\$4.80 120P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *ECOLOGY, *GRADES 1-6, *GRADES 7-12, *INSTRUCTIONAL MATERIALS, *OCEANOLOGY, EXHIBITS, FIELD TRIPS, INSERVICE TEACHER EDUCATION, MOBILE EDUCATIONAL SERVICES, SPECIALISTS.

ES 001 649

FEASIBILITY STUDY BY SCHOOLS, BUSINESS, INDUSTRY, AND COMMUNITY RE--SCHOOL-COMMUNITY SCIENCE RESOURCE CENTER.

PA., PITTSBURGH, BALDWIN-WHITEHALL SCHOOL DISTRICT

EDRS PRICE MF-\$0.25 HC-\$2.24 56P.

DESCRIPTORS- *COMMUNITY RESOURCES, *PROGRAM PLANNING, *SCIENCE CURRICULUM, *SCIENCE TEACHING CENTERS, ADULT EDUCATION, INSERVICE TEACHER EDUCATION, SCIENTIFIC LITERACY, TRADE AND INDUSTRIAL EDUCATION.

ES 001 671

WESTERN WYOMING HERITAGE - CULTURALLY, EDUCATIONALLY, RECREATIONALLY.

WYO., GREEN RIVER, SCHOOL DISTRICT 2

EDRS PRICE MF-\$0.75 HC-\$5.32 133P.

DESCRIPTORS- *CULTURAL ENRICHMENT, *OUTDOOR EDUCATION, *RECREATIONAL PROGRAMS, *STUDENT EXCHANGE PROGRAMS, CAMPING, CONSERVATION EDUCATION, FIELD TRIPS, MUSEUMS, NATURAL SCIENCES.

ES 001 688

REGIONAL COOPERATIVE OUTDOOR EDUCATION PROGRAM.

ILL., MARION, COMMUNITY UNIT SCHOOL DISTRICT 2
EDRS PRICE MF-\$0.50 HC-\$3.84 96P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *GRADES 1-6, *INSERVICE TEACHER EDUCATION, *MOBILE EDUCATIONAL SERVICES, *OUTDOOR EDUCATION, *SPECIALISTS, INSTRUCTIONAL MATERIALS, TEACHING METHODS.

ES 001 699

OUTDOOR NATURAL SCIENCE LABORATORY AND PROGRAM IN UNIVERSITY CITY, MISSOURI
MO., UNIVERSITY CITY, SCHOOL DISTRICT

EDRS PRICE MF-\$0.50 HC-\$4.36 109P.

DESCRIPTORS- *ENRICHMENT EXPERIENCE, *GRADES 1-6, *GRADES 7-12, *INTERDISCIPLINARY APPROACH, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *SCIENCE LABORATORIES, ECOLOGY, FIELD TRIPS, SUMMER PROGRAMS.

ES 001 702

OUTDOOR CONSERVATION EDUCATION CENTER.

N. J., NEWARK, BOARD OF EDUCATION

EDRS PRICE MF-\$0.25 HC-\$0.84 21P.

DESCRIPTORS- *CONSERVATION EDUCATION, *INNER CITY, *INTERGROUP RELATIONS, *OUTDOOR EDUCATION, *REGIONAL PROGRAMS, CURRICULUM DEVELOPMENT, DISADVANTAGED YOUTH, ECOLOGY, NATURAL RESOURCES.

ES 001 740

CENTRAL CALIFORNIA - LABORATORY FOR LEARNING - EXTENSION.

CALIF., FRESNO, COUNTY SCHOOLS

EDRS PRICE MF-\$0.25 HC-\$1.88 47P.

DESCRIPTORS- *DISCOVERY PROCESSES, *ECOLOGY, *GRADE 10, *GRADE 6, *GRADE 7, *OUTDOOR EDUCATION, *SCIENCE PROJECTS, RESIDENTIAL PROGRAMS.

ES 001 756

SCIENCE EXPERIENCE AS A MOTIVATIONAL VEHICLE TO IMPROVE WRITTEN COMMUNICATION SKILLS IN THE INTERMEDIATE GRADES.

ILL., HOMEWOOD, PUBLIC SCHOOLS DISTRICT 153
EDRS PRICE MF-\$0.25 HC-\$0.84 21P.

DESCRIPTORS- *GRADE 5, *INSERVICE TEACHER EDUCATION, *INSTRUCTIONAL MATERIALS, *SCIENCE EXPERIMENTS, *TEACHING METHODS, *WRITING SKILLS, SUMMER PROGRAMS.

ES 001 810

INNOVATIVE CURRICULUM DEVELOPMENT IN EARTH-SPACE SCIENCE UTILIZING AN ATMOSPHERIUM-PLANETARIUM COMPLEX.

N. Y., AURORA, SOUTHERN CAYUGA CENT. SCH. DIST.
EDRS PRICE MF-\$0.25 HC-\$1.68 42P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *ASTRONOMY, *CURRICULUM DEVELOPMENT, *EARTH SCIENCES, *SCIENCE TEACHING CENTERS.

ES 001 812

UPPER SUSQUEHANNA REGIONAL EDUCATIONAL SERVICE CENTER.

N. Y., BINGHAMTON, BROOME COUNTY BD/COOP. ED. SVCS
EDRS PRICE MF-\$0.50 HC-\$1.72 43P.

DESCRIPTORS- *CONSERVATION EDUCATION, *CULTURAL ENRICHMENT, *EXHIBITS, *REGIONAL PROGRAMS, *THEATER ARTS, BALLET, COMMUNITY PROGRAMS, CONCERTS, INSERVICE TEACHER EDUCATION, MUSIC, OPERA, SCIENCE TEACHING CENTERS, SEMINARS, WORKSHOPS.

ES 001 822

SCIENCE CENTER.

PA., ABINGTON, SCHOOL DISTRICT
EDRS PRICE MF-\$0.25 HC-\$0.68 17P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *NATURAL SCIENCES, *SCIENCE TEACHING CENTERS.

ES 001 840

PROJECT COMPREHENSIVE

TEX., DENTON, INDEPENDENT SCHOOL DISTRICT
EDRS PRICE MF-\$0.75 HC-\$5.64 141P.

DESCRIPTORS- *AMERICAN HISTORY, *CHILD DEVELOPMENT CENTERS, *CURRICULUM DEVELOPMENT, *DRAMATICS, *MUSIC, *SCIENCE PROGRAMS, ATOMIC THEORY, CLINICAL DIAGNOSIS, MOBILE EDUCATIONAL SERVICES.

ES 001 849

OUTDOOR EDUCATION FOR HANDICAPPED CHILDREN.

WIS., STEVENS POINT, COOP. EDUC. SERVICE AGENCY 7

EDRS PRICE MF-\$0.50 HC-\$2.80 70P.

DESCRIPTORS- *CAMPING, *EDUCABLE MENTALLY HANDICAPPED, *OUTDOOR EDUCATION, *RECREATIONAL PROGRAMS, ATHLETICS, COMMUNICATION, SKILLS, CONSERVATION EDUCATION, CRAFTS, GROUP LIVING, RESIDENTIAL PROGRAMS.

ES 001 859

SCHOOL-COMMUNITY OUTDOOR EDUCATION PROJECT (A YEAR-ROUND PROGRAM FOR TEACHING IN, AND ABOUT THE OUTDOORS).

ILL., CRYSTAL LAKE, COMMUNITY SCHOOL DISTRICT 47

EDRS PRICE MF-\$0.50 HC-\$3.36 84P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *GRADES 1-6, *MOBILE LABORATORIES, *OUTDOOR EDUCATION, *RECREATIONAL PROGRAMS, *SCIENCE TEACHING CENTERS, COMMUNITY INVOLVEMENT, COMMUNITY RESOURCES, FIELD TRIPS.

ES 001 860

OUTDOOR LABORATORY AND COMMUNITY NATURE CENTER.

KANS., KANSAS CITY, TURNER UNIFIED SCHOOL DIST. 202

EDRS PRICE MF-\$0.25 HC-\$1.04 26P.

DESCRIPTORS- *CONSERVATION EDUCATION, *HORTICULTURE, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *SCIENCE TEACHING CENTERS, BIOLOGY, COMMUNITY INVOLVEMENT, JOB SKILLS, RECREATION.

ES 001 872

ROBESON COUNTY SUPPLEMENTARY EDUCATION CENTER.

N. C., LUMBERTON, ROBESON COUNTY BOARD OF EDUC.

EDRS PRICE MF-\$0.50 HC-\$2.80 70P.

DESCRIPTORS- *CULTURAL ENRICHMENT, *DEMONSTRATION PROJECTS, *LIBRARY MATERIALS, *RESOURCE CENTERS, *SCIENCE TEACHING CENTERS, *TEACHER IMPROVEMENT, AUDIOVISUAL AIDS, INSTRUCTIONAL MATERIALS, MASTER TEACHERS.

ES 001 876

PROPOSED PROGRAM FOR A SPACE AND EARTH
SCIENCE CENTER.

N. C., CONCORD, CABARRUS COUNTY BOARD OF
EDUC.

EDRS PRICE MF-\$0.50 HC-\$2.96 74P.

DESCRIPTORS- *ASTRONOMY, *GRADES 1-6, *GRADES
7-12, *NATURAL SCIENCES, *OUTDOOR EDUCATION,
*SCIENCE COURSE IMPROVEMENT PROJECT, *SCI-
ENCE TEACHING CENTERS, INTERDISCIPLINARY
APPROACH, LOW LEVEL ASPIRATION, MOBILE
LABORATORIES.

ES 001 877

POLLUTION, LIFE, AND EARTH APPLIED SCIENCE
ENRICHMENT.

OHIO, WILLOUGHBY, WILLOUGHBY-EASTLAKE SCH.
DIST.

EDRS PRICE MF-\$0.25 HC-\$2.24 56P.

DESCRIPTORS- *EARTH SCIENCE, *GRADES 1-6,
*GRADES 7-12, *NATURAL SCIENCES, *OUTDOOR
EDUCATION, *WATER RESOURCES, *ZOOS, BIOLOGY,
ECOLOGY, FILMS, GEOLOGY, SCIENCE LABORA-
TORIES.

ES 001 882

CURRICULUM DEMONSTRATION NETWORK.

TEX., AUSTIN, INDEPENDENT SCHOOL DISTRICT

EDRS PRICE MF-\$0.50 HC-\$3.04 76P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *DEM-
ONSTRATION CENTERS, *GRADES 1-6, *INSERVICE
TEACHER EDUCATION, *SCIENCE COURSE IMPROVE-
MENT PROJECT.

ES 001 954

INSTRUCTIONAL, RESEARCH, AND DEMONSTRATION
LABORATORY IN THE BIOLOGICAL SCIENCES FOR
ELEMENTARY AND SECONDARY PUPILS.

MINN., MINNEAPOLIS, INDEPENDENT SCHOOL DIST.
275

EDRS PRICE MF-\$0.50 HC-\$4.24 106P.

DESCRIPTORS- *BIOLOGICAL SCIENCES, *CUR-
RICULUM DEVELOPMENT, *CURRICULUM ENRICH-
MENT, *NATURE CENTERS.

ES 001 966

OUTDOOR EDUCATION CURRICULUM FOR ALL SEA-
SONS IN UTAH COUNTY, UTAH.

UTAH, AMERICAN FORK, ALPINE SCHOOL DISTRICT

PRICE MF-\$0.25 HC-\$1.56 39P.

DESCRIPTORS- *CONSERVATION EDUCATION, *CUR-
RICULUM DEVELOPMENT, *FIELD EXPERIENCE
PROGRAMS, *INSTRUCTIONAL MATERIALS,
*NATURAL RESOURCES, OUTDOOR EDUCATION.

ES 001 969

PLANNING A MODEL MARINE SCIENCE LABORA-
TORY (FOR-SEA).

WASH., POULSBORO, NORTH KITSAP SCHOOL DISTRICT
400

EDRS PRICE MF-\$0.25 HC-\$1.12 28P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT,
*GRADES 1-6, *GRADES 7-12, *MARINE BIOLOGY,
*OCEANOLOGY, *PROGRAM PLANNING, *SCIENTIFIC
LITERACY, ADULT EDUCATION, FIELD TRIPS, MU-
SEUMS, SCIENCE LABORATORIES, SCIENTIFIC RE-
SEARCH.

ES 001 976

BISTATE PROJECT FOR THE IMPROVEMENT OF IN-
SERVICE TEACHER EDUCATION THROUGH SCIENCE.

IOWA, CLARINDA, COMMUNITY SCHOOL DISTRICT

EDRS PRICE MF-\$0.50 HC-\$3.36 84P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *IN-
SERVICE TEACHER EDUCATION, *SCIENCE PRO-
GRAMS, *TEACHER ATTITUDES, ELEMENTARY
EDUCATION, INSTRUCTIONAL MATERIALS, SUMMER
PROGRAMS.

ES 001 980

NORTHWEST EDUCATIONAL COMPLEMENTAL CEN-
TER. MO., MARYLAND HEIGHTS, PATTONVILLE R-3
SCH. DIST.

EDRS PRICE MF-\$1.00 HC-\$9.48 237P.

DESCRIPTORS- *CITIZENSHIP RESPONSIBILITY,
*CULTURAL ENRICHMENT, *GRADES 1-6, *GRADES
7-12, *PSYCHOEDUCATIONAL CLINICS, *REMEDIAL
READING CLINICS, *SCIENCE COURSE IMPROVEMENT
PROJECT, LIBRARY SERVICES.

ES 001 981

REGIONAL SCIENCE EXPERIENCE CENTER.

TENN., OAK RIDGE, SCHOOLS

EDRS PRICE MF-\$1.00 HC-\$9.16 229P.

DESCRIPTORS- *INFORMATION DISSEMINATION,
*MOBILE EDUCATIONAL SERVICES, *REGIONAL CO-
OPERATION, *SCIENCE COURSE IMPROVEMENT PRO-
JECT, *SCIENCE EQUIPMENT, INSERVICE PROGRAMS.

II. MATHEMATICS EDUCATION

ES 001 079

MATHEMATICS LABORATORY.

ARK., WYNNE, PUBLIC SCHOOLS

EDRS PRICE MF-\$0.50 HC-\$2.44 61P.

DESCRIPTORS- *CALCULATION, *GRADE 10, *GRADE 9, *LABORATORIES, *MATHEMATICS; DROP-OUT PREVENTION, EXPERIMENTAL PROGRAMS.

ES 001 133

PROPOSAL TO DEVELOP AN INSTRUCTIONAL RESOURCES CENTER DESIGNED SPECIFICALLY TO SUPPORT TEAM TEACHING OBJECTIVES IN THE AMHERST SCHOOL DISTRICT.

MASS., AMHERST, SCHOOL COMMITTEE

EDRS PRICE MF-\$0.25 HC-\$1.96 49P.

DESCRIPTORS- *AUDIOVISUAL AIDS, *GRADES 1-6, *MATHEMATICS, *READING, *SCHOOL LIBRARIES, *TEAM TEACHING, ENRICHMENT PROGRAMS, INDIVIDUAL INSTRUCTION, TEACHER WORKSHOPS, VOLUNTEERS.

ES 001 169

KINGFISHER COUNTY SPECIAL EDUCATION SERVICES.

OKLA., KINGFISHER, COUNTY SUPERINTENDENT OF SCHS.

EDRS PRICE MF-\$0.25 HC-\$0.76 19P.

DESCRIPTORS- *GRADES 1-6, *GRADES 7-12, *REMEDIAL MATHEMATICS, *REMEDIAL READING, INSERVICE TEACHER EDUCATION.

ES 001 201

ADVANCED MATHEMATICS TELEVISION SERIES.

VA., HAMPTON, CITY SCHOOL BOARD

EDRS PRICE MF-\$0.50 HC-\$3.32 83P.

DESCRIPTORS- *ADVANCED PLACEMENT, *CALCULUS, *GRADE 12, *TELEVISED INSTRUCTION, *VIDEO TAPE RECORDINGS, ACCELERATED PROGRAMS, INSERVICE TEACHER EDUCATION.

ES 001 297

DEMONSTRATION OF THE FEASIBILITY OF CURRICULUM REVISIONS BY CLASSROOM TEACHERS. R. I., PROVIDENCE, CITY PUBLIC SCHOOLS

EDRS PRICE MF-\$0.25 HC-\$0.88 22P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *MATHEMATICS, *SELF EVALUATION, *SELF HELP PROGRAMS.

ES 001 363

GENERAL MATHEMATICS.

IND., GARY, COMMUNITY SCHOOL CORPORATION

EDRS PRICE MF-\$0.25 HC-\$1.08 27P.

DESCRIPTORS- *GRADES 7-12, *JUNIOR HIGH SCHOOL STUDENTS, *MATHEMATICS INSTRUCTION, *SELF HELP PROGRAMS, *STUDENT MOTIVATION, *UNDERACHIEVERS, MATHEMATICS MATERIALS.

ES 001 369

MATHEMATICS LABORATORIES FOR GENERAL MATHEMATICS IN SECONDARY SCHOOLS.

MD., ELKTON, CECIL COUNTY PUBLIC SCHOOLS

EDRS PRICE MF-\$0.25 HC-\$1.92 48P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *ELECTROMECHANICAL AIDS, *GRADES 7-12, *MATHEMATICS, AUDIOVISUAL AIDS, INSERVICE TEACHER EDUCATION, MOTIVATION, SKILLS, TEACHER AIDES, UNDERACHIEVERS, VOCATIONAL EDUCATION.

ES 001 400

ADVANCED GENERAL MATHEMATICS PROGRAM.

S. C., COLUMBIA, RICHLAND COUNTY SCH. DIST. 1

EDRS PRICE MF-\$0.25 HC-\$1.00 25P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *GRADES 7-12, *MATHEMATICS, *NONCOLLEGE PREPARATORY STUDENTS, *SECONDARY EDUCATION, INSTRUCTIONAL MATERIALS, TEACHER WORKSHOPS.

ES 001 430

CENTRAL IOWA LOW ACHIEVER MATH PROJECT. IOWA, DES MOINES, INDEP. COMMUNITY SCHOOL DISTRICT

EDRS PRICE MF-\$0.50 HC-\$2.56 64P.

DESCRIPTORS- *JUNIOR HIGH SCHOOL STUDENTS, *LOW ACHIEVERS, *POTENTIAL DROPOUTS, *REMEDIAL MATHEMATICS, INSERVICE TEACHER EDUCATION, MATHEMATICS MATERIALS.

ES 001 457

PROJECT TO PROVIDE A RESEARCH, DIAGNOSTIC, DEMONSTRATION, AND EDUCATION CENTER FOR CLOVIS PUBLIC SCHOOLS AND CONTIGUOUS AREAS. N. MEX., CLOVIS, PUBLIC SCHOOLS

EDRS PRICE MF-\$0.50 HC-\$2.88 72P.

DESCRIPTORS- *CLINICAL DIAGNOSIS, *COUNSELING, *MATHEMATICS INSTRUCTION, *READING PROGRAMS, *SPECIAL EDUCATION, DISADVANTAGED YOUTH, EMOTIONALLY DISTURBED CHILDREN, HIGH ACHIEVERS, SPECIALISTS, SPEECH THERAPY, TEACHER AIDES, UNDERACHIEVERS.

ES 001 512

SOUTH PORTLAND CURRICULUM PROJECT - USE OF A TIME-SHARED COMPUTER.

MAINE, SOUTH PORTLAND, BOARD OF EDUCATION
EDRS PRICE MF-\$0.25 HC-\$1.24 31P.

DESCRIPTORS- *COMPUTER ORIENTED PROGRAMS, *DATA PROCESSING, *GRADES 7-12, *MATHEMATICS EDUCATION, *PROGRAMING, *VOCATIONAL EDUCATION, INSERVICE TEACHER EDUCATION, SUMMER PROGRAMS.

ES 001 597

RESOURCE CENTER FOR THE LOW ACHIEVER IN MATHEMATICS.

LA., LAFAYETTE, PARISH SCHOOL BOARD

EDRS PRICE MF-\$0.25 HC-\$1.36 34P.

DESCRIPTORS- *JUNIOR HIGH SCHOOL STUDENTS, *LOW ACHIEVERS, *MATHEMATICS CURRICULUM, AUDIOVISUAL AIDS, CAMP PROJECT, DISADVANTAGED YOUTH, MATHEMATICS MATERIALS, MINNEMATH, RESEARCH, RESOURCE CENTERS, TEACHING METHODS.

ES 001 600

PROTOTYPE - LEADERSHIP TRAINING PROGRAM - DEMONSTRATED THROUGH A LEADERSHIP TRAINING PROGRAM IN ELEMENTARY SCHOOL MATHEMATICS EDUCATION.

MASS., BROOKLINE, PUBLIC SCHOOLS

EDRS PRICE MF-\$0.25 HC-\$1.40 35P.

DESCRIPTORS- *DEMONSTRATION PROJECTS, *GRADES 1-6, *LEADER PARTICIPATION, *LEADERSHIP TRAINING, *MATHEMATICS CURRICULUM, *SPECIALISTS, EDUCATIONAL TELEVISION, SUMMER WORKSHOPS.

ES 001 602

LABORATORY PROGRAM FOR COMPUTER ASSISTED LEARNING.

MASS., WESTWOOD, SCHOOL COMMITTEE

EDRS PRICE MF-\$0.25 HC-\$2.04 51P.

DESCRIPTORS- *COMPUTER ORIENTED PROGRAMS, *MATHEMATICS INSTRUCTION, *PROGRAMED INSTRUCTION, *SECONDARY EDUCATION, DIGITAL COMPUTERS, INDIVIDUAL INSTRUCTION, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS.

ES 001 645

IMPROVING LEARNING THROUGH USE OF NEW TECHNIQUES INVOLVING INTERDISCIPLINARY APPROACH.

OKLA., ANADARKO, AREA OFFICE - EDUCATION
EDRS PRICE MF-\$0.25 HC-\$1.16 29P.

DESCRIPTORS- *AMERICAN INDIANS, *AUDIOVISUAL AIDS, MATHEMATICS, *READING, *TEACHER WORKSHOPS, ACADEMIC ACHIEVEMENTS, COMMUNICATION SKILLS, DEMONSTRATION PROJECTS, TEACHER TECHNIQUES.

ES 001 692

ELEMENTARY SCHOOL DEVELOPMENTAL MATHEMATICS PROGRAMS.

IOWA, SIOUX CITY, WOODBURY COUNTY BOARD OF EDUC.

EDRS PRICE MF-\$0.25 HC-\$1.04 26P.

DESCRIPTORS- *DEVELOPMENTAL PROGRAMS, *ELEMENTARY GRADES, *GRADES 1-6, *MATHEMATICS CURRICULUM, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS, TEACHING METHODS.

ES 011 711

SYSTEMS APPROACH TO IMPROVING MATHEMATICS INSTRUCTION.

PA., PITTSBURGH, SCHOOL DISTRICT

EDRS PRICE MF-\$0.50 HC-\$3.36 84P.

DESCRIPTORS- *GRADE 4, *INDIVIDUALIZED CURRICULUM, *INSTRUCTIONAL MATERIALS, *LEARNING PROCESSES, *MATHEMATICAL CONCEPTS, *TEACHER ROLE, INNER CITY, UNDERACHIEVERS, URBAN EDUCATION.

ES 001 712

REGIONAL SUPPLEMENTARY EDUCATIONAL SERVICES.

PA., CALIFORNIA, JOINT BOARD OF TRI-COUNTY SCH. DIR.

EDRS PRICE MF-\$0.50 HC-3.32 83P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, DEMONSTRATION PROJECTS, EDUCATION SERVICE CENTERS, *MODERN MATHEMATICS, *SOCIAL STUDIES.

ES 001 732

INDIVIDUALIZED DIAGNOSTIC CURRICULUM IN READING AND MATHEMATICS.

DEPT. OF DEFENSE, U. S. DEPENDENTS SCHS- EUROPEAN AREA

EDRS PRICE MF-\$0.25 HC-\$1.28 32P.

DESCRIPTORS- *DIAGNOSTIC TESTS, *GRADE 5, *GRADE 6, *INDIVIDUALIZED CURRICULUM, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *READING, *INSERVICE TEACHER EDUCATION, NONGRADED SYSTEM.

ES 001 741

INDIVIDUAL PRESCRIBED INSTRUCTION - (PROJECT EDINN - PROJECT FOR EDUCATIONAL INNOVATION). CALIF., SALINAS, MONTEREY COUNTY SUPT. OF SCHOOLS

EDRS PRICE MF-\$0.25 HC-\$2.16 54P.

DESCRIPTORS- *COMPUTER ASSISTED INSTRUCTION, *GRADES 1-6, *INDIVIDUAL INSTRUCTION, *MATHEMATICS, *READING, *SEQUENTIAL LEARNING, DISADVANTAGED YOUTH, SLOW LEARNERS, TEACHER ROLE, TEAM TEACHING.

ES 001 785

COMPUTER-ASSISTED INSTRUCTION IN MATHEMATICS.

MISS., MCCOMB, MUNICIPAL SEPARATE SCHOOL DISTRICT

EDRS PRICE MF-\$0.25 HC-\$1.36 34P.

DESCRIPTORS- *COMPUTER ASSISTED INSTRUCTION, *ELEMENTARY SCHOOL MATHEMATICS, *FEASIBILITY STUDY, *INDIVIDUAL INSTRUCTION.

ES 001 875

DEVELOPMENT OF FOUR MODEL ELEMENTARY PROGRAMS FOR TEACHING MATHEMATICS WITH IMPLICATIONS FOR OTHER INSTRUCTIONAL AREAS. N. C., GREENSBORO, CITY BOARD OF EDUCATION

EDRS PRICE MF-\$0.50 HC-\$4.36 109P.

DESCRIPTORS- *GRADES 1-6, *MATHEMATICAL MODELS, *MATHEMATICS, *TEACHER WORKSHOPS, MEASUREMENT INSTRUMENTS, MULTIGRADED CLASSES, PRESERVICE EDUCATION, TEACHER AIDES, TEAM TEACHING.

ES 001 889

SUCCESS IN MATHEMATICS THROUGH AURAL-READING TECHNIQUES (SMART).

FLA., DELAND, VOLUSIA COUNTY BD. OF PUB. INST.

EDRS PRICE MF-\$0.25 HC-\$2.08 52P.

DESCRIPTORS- *AURAL LEARNING, *GRADES 7-12, *INDIVIDUAL INSTRUCTION, *MATHEMATICS INSTRUCTION, *TAPE RECORDINGS, *UNDER-ACHIEVERS, AUDIOVISUAL AIDS.

ES 001 917

PLANNING AND PILOT IMPLEMENTATION OF A COMPUTER-BASED INSTRUCTIONAL PROGRAM (TITLE SUPPLIED).

N. Y., BROOKLYN, BD. OF EDUC., CITY OF NEW YORK

EDRS PRICE MF-\$0.25 HC-\$2.24 56P.

DESCRIPTORS- *COMPUTER ASSISTED INSTRUCTION, *GRADES 1-6, *INDIVIDUALIZED CURRICULUM, *MATHEMATICS INSTRUCTION, *READING INSTRUCTION, *SPELLING, INSTRUCTIONAL MATERIALS.

III. SCIENCE AND MATHEMATICS EDUCATION

ES 001 206

PUGET SOUND ARTS AND SCIENCE CENTER.
WASH., SEATTLE, SCHOOL DISTRICT 1

EDRS PRICE MF-\$1.25 HC-\$11.68 292P.

DESCRIPTORS- *ASTRONOMY, *GRADES 1-6, *GRADES 7-12, MATHEMATICS, *SCIENCES, *TEACHER WORKSHOPS, THEATER ARTS, COMPUTER ORIENTED PROGRAMS, DRAMATICS, ELEMENTARY SCIENCES, EXHIBITS, EXPERIMENTAL PROGRAMS, HUMANITIES, INSERVICE TEACHER EDUCATION, MUSIC, PHYSICAL SCIENCES.

ES 001 337

INSTRUCTIONAL PROGRAM IN MODERN CONCEPTS OF ENGINEERING FOR ALL SECONDARY TEACHERS AND STUDENTS.

PA., MEDIA, DELAWARE COUNTY BD. OF SCH. DIR.

EDRS PRICE MF-\$0.50 HC-\$2.44 61P.

DESCRIPTORS- *ENGINEERING, *GRADES 7-12, *INSERVICE TEACHER EDUCATION, *SCIENTIFIC CONCEPTS, *SUMMER PROGRAMS, AUTOMATION, COMPUTER ASSISTED INSTRUCTION, DIGITAL COMPUTERS, MATHEMATICAL CONCEPTS, PROGRAMING, SKILLS, SOCIOECONOMIC INFLUENCES, TECHNOLOGICAL ADVANCEMENT.

ES 001 434

NORTH LOUISIANA SUPPLEMENTARY EDUCATION CENTER.

LA., NATCHITOCHES, PARISH SCHOOL BOARD

EDRS PRICE MF-\$0.50 HC-\$3.08 77P.

DESCRIPTORS- *CONSERVATION EDUCATION, *EDUCATION SERVICE CENTERS, *MATHEMATICS CURRICULUM, *RESOURCE CENTERS, *SCIENCE CURRICULUM, DEMONSTRATION PROGRAMS, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS, RECREATIONAL PROGRAMS.

ES 001 651

REGIONAL SCIENCE AND MATHEMATICS IMPROVEMENT PROJECT.

PA., WILKES-BARRE, LUZERNE COUNTY SCHOOLS

EDRS PRICE MF-\$0.50 HC-\$3.12 78P.

DESCRIPTORS- *GRADES 7-12, *MATHEMATICS CURRICULUM, *SCIENCE COURSE IMPROVEMENT PROJECT, *SCIENCE CURRICULUM, BIOLOGICAL SCIENCES, CHEMISTRY, EARTH SCIENCE, INSERVICE TEACHER EDUCATION, MOBILE EDUCATIONAL SERVICES, PHYSICS, SCIENCE LABORATORIES.

ES 001 693

PROBLEM SOLVING - COMPUTER STYLE.

LA., NEW ORLEANS, ORLEANS PARISH SCHOOL BOARD

EDRS PRICE MF-\$0.25 HC-\$2.04 51P.

DESCRIPTORS- *COMPUTER ORIENTED PROGRAMS, *CURRICULUM, ENRICHMENT, *GRADES 7-12, *MATHEMATICS, *PROBLEM SOLVING, *SECONDARY SCHOOL SCIENCE, DIGITAL COMPUTERS, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS, PROGRAMING.

ES 001 881

LYCOMING COUNTY OUTDOOR EDUCATION FOR UNDERACHIEVING CHILDREN.

PA., WILLIAMSPORT, LYCOMING COUNTY BOARD OF EDUC.

EDRS PRICE MF-\$0.25 HC-\$0.80 20P.

DESCRIPTORS- *CAMPING, *GRADE 4, *GRADE 5, *GRADE 6, *LEARNING, MOTIVATION, *OUTDOOR EDUCATION, *UNDERACHIEVERS, ART ACTIVITIES, CRAFTS, HYGIENE, MATHEMATICS, NATURAL SCIENCES, READING, SCIENCES.

ES 001 887

REGIONAL ELEMENTARY SCHOOL TEACHER UPGRADING PROJECT.

CONN., WATERTOWN, BOARD OF EDUCATION

EDRS PRICE MF-\$60.25 HC-\$1.68 42P.

DESCRIPTORS- *DEMONSTRATION PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *ELEMENTARY SCHOOL TEACHERS, *GRADES 1-6, *INSERVICE TEACHER EDUCATION, *MODERN MATHEMATICS, MASTER TEACHERS, METHODOLOGY, SUMMER PROGRAMS.

CENTER COMMENTS

The ERIC Information Analysis Center for Science Education has entered the field of information science. Activities during the last two years have included the collection and abstracting of documents. While these activities have been continuing and being expanded, current efforts are directed toward the analysis of information contained in the documents. During the past year, five reviews have been published concerning the current state of instructional procedures for teaching science. Several reviews have related to science education and learning in the field of science education for the next year.

The ERIC Information Analysis Center for Mathematics Education continues to analyze the current state of mathematics education during the next year. The ERIC Information Analysis Center for Mathematics Education will continue to publish reviews in mathematics education.

CURRENT INDEX TO JOURNALS IN EDUCATION

The HEW Office of Education has recently announced that Crowell-Kollar-McGraw-Hill, Information Sciences, Inc. has been awarded a contract to publish the Current Index to Journals in Education.

The new journal index is the first issue which is to be refereed by ERIC. Starting with the monthly cataloging and indexing publication beginning in January and ending in the field of education. Annual and semiannual editions will be available. The first month's issue will cover the month of January. In the field of education, it is planned that the first issue will be published in the second section of additional literature.

The Current Index to Journals in Education will be a continuing publication of the Office of Education, published by the Office of Education, Information Sciences, Inc. The Office of Education Research and Information Center will be the primary source of information for the Current Index to Journals in Education. It has been limited to the current state of the field. The Office of Education Research and Information Center will be the primary source of information for the Current Index to Journals in Education. The Office of Education Research and Information Center will be the primary source of information for the Current Index to Journals in Education.

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Maximum's new role in the expanding field of information products and services. Particularly these information needs must suitably met through nontraditional publishing methods.

The President of Information Sciences is Mr. Jeffrey Norton, formerly Vice President for Editorial Development at McGraw-Hill. Project Director for the Current Index to Journals in Education is Mr. L. P. Lewis, Jr., Vice President of Information Sciences, Inc. Mr. Richard Kollar, Mr. William R. Jones, and Mrs. Minnie L. Howard will also be associated with the journal effort. Dr. Sidney L. Forman, Professor of Education and Librarian of the Columbia University Teachers College, will serve as a consultant to Information Sciences, Inc.

An attempt has been made to hold the CIE subscription rates to a level within the reach of personal subscriptions. Following are the approximate prices:

1. Monthly Current Index to Journals in Education	
Annual subscription (12 issues)	\$34.00
Single copies	\$3.00
2. Cumulative editions	
Semiannual and annual to monthly subscribers	\$30.00
Semiannual and annual only	\$35.00
Semiannual single copy	\$12.50
Annual single copy	\$24.50

A discount schedule may be provided for quantity purchases.

AVAILABILITY OF ERIC MAGNETIC TAPES

You can borrow a copy of the magnetic tapes containing all the material included in the document resumes printed in Research in Education. It is recommended that groups consider such a request seriously in view of their readiness to handle the tapes and the cost of the tapes. If you still want to borrow ERIC tapes to test its value, you can borrow a tape from the ERIC collection. Here is how you can borrow and what you need to know about its use.

The ERIC collection includes approximately 11,280 records containing the information included in the document resumes, as shown in my copy of Research in Education. These records are from all issues of Research in Education, from the beginning in November, 1966, through December, 1967, and from the ERIC collection, the Disadvantaged Collection, and the ERIC Research Reports 1956-1968.

There is no provision now for making the tapes. The tapes are assumed to be made in an IBM 360/9 track system. As a minimum you will need tape drives, a card reader, a printer, and 32 K or more of IBM System Model 360. The BPI on the tapes is 800.

Central ERIC will make the tapes available on a two week loan. There is no cost, provided the tape is returned undamaged. If the tape is damaged, you will be charged for the tape with a new one of exactly the same model of track, 2400 or 1200 bpi, tested to handle 1600 BPI. Central ERIC will also provide eight pages of documentation on the magnetic tape format including the character set, field identification, and tape format. ERIC is unable to provide or recommend any consultant time for your specific installation. We also cannot furnish assistance concerning the use of these tape files.

We specifically request that you not contact the North American Rockwell Corporation because the Office of Education has not provided the necessary resources for the contractor to provide consulting assistance.

Finally, ERIC would appreciate a short report from time to time on your experiences and use of the ERIC tapes.

Please submit your request for tapes in writing to Mr. James L. Eller, ERIC, U.S. Office of Education, 400 Maryland Avenue, S.W., Washington, D.C., 20202. Your application will be put on schedule for loan of the tapes and you will be advised of the approximate date to expect tape delivery.

NEW EDRS PRICES ANNOUNCED

New EDRS prices were announced in the February issue of Research in Education. The new prices and information needed to order ERIC documents are listed below:

	Cost of Document Microfiche Collection full set
Reports in Research in Education for 1967	\$ 480
Reports in Research in Education for 1968	1,470
Total for all reports	\$ 1,950
Office of Education Research Reports, 1956-65	495
ERIC Catalog of Selected Documents on the Disadvantaged	410
Pacesetters in Innovation, Fiscal Year 1966	180
Pacesetters in Innovation, Fiscal Year 1967	215
Pacesetters in Innovation, Fiscal Year 1968	140
Manpower Research: Inventory Fiscal Years 1966 and 1967	100
Selected Documents in Higher Education	190
Total for all ERIC special collections	\$ 1,730
GRAND TOTAL	\$ 3,680

Instructions for Ordering Documents from EDRS

- * All individual microfiche continue to be 25 cents each.
- * Cost of hard copy is five cents per page.
- * A standing order for all microfiche of reports cited in monthly issues of RIE is currently about \$125.
- * To order hard copy reproductions from the February RIE and earlier issues, increase the price shown in the document resume entry by 25 percent.

Instructions for Ordering Documents from EDRS (Continued)

- * Payment must accompany orders totaling less than \$5. Add a handling charge of 50 cents to all orders. The ERIC Document Reproduction Service is registered to collect sales taxes. Orders from states which have sales tax laws should include payment of the appropriate tax or tax exemption certificate.
- * Foreign orders: A 25-percent service charge, calculated to the nearest cent, must accompany orders from outside the U.S., its territories and possessions. This service charge is applicable to orders for microfiche and hard copy.
- * Documents should be ordered from:
ERIC Document Reproduction Service
National Cash Register Company
4936 Fairmont Avenue
Bethesda, Maryland 20014

DOCUMENTS ON SCIENCE AND MATHEMATICS EDUCATION IN RESEARCH IN EDUCATION, 1968

Information analysts at SEIAC have reviewed Research in Education, 1968, to identify documents related to science and mathematics education. The bibliography included in this newsletter is divided into three sections—(1) documents related to science education, (2) documents related to mathematics education, and (3) documents related to both science and mathematics education.

Each entry provides citation data and index terms for the document. Prices listed are current EDRS prices. When ordering documents, be certain to include the ERIC document number of each document and indicate whether you desire microfiche (MF) or hardcopy (HC). A 50¢ handling charge should be included for all orders. Requests for documents should be addressed to EDRS, the National Cash Register Company, 4936 Fairmont Avenue, Bethesda, Maryland 20014.

The source of a document listed as unavailable from EDRS can be obtained by using the abstracts in Research in Education (RIE). The ED number listed in this newsletter is the same ED number as that of the document as it appears in RIE. Locate the document resume by its ED number in RIE; the availability of the document will be indicated.

I. SCIENCE EDUCATION

ED 012 387
RITTER, HOWARD L.
PRELIMINARY DEVELOPMENT OF A JUNIOR-HIGH
COURSE IN THE LOGICAL FOUNDATIONS OF PHYSI-
CAL SCIENCE. (TITLE SUPPLIED)
MIAMI UNIV., OXFORD, OHIO
REPORT NUMBER CRP-S-126
PUB DATE 64
EDRS PRICE MF-\$1.00 HC-\$11.95 239P.

DESCRIPTORS— *LOGICAL THINKING,
*MATHEMATICAL APPLICATION, *PHYSICAL
SCIENCES, *SCIENCE COURSES, *TEXTBOOK
PREPARATION, GRADE 7, OXFORD, SCIENCE
UNITS, SEQUENTIAL APPROACH, STUDENT
MOTIVATION.

ED 012 559
LORETAN, JOSEPH O. AND OTHERS
EVALUATION OF SCIENCE INSTRUCTION IN SPANISH
FOR STUDENTS OF SPANISH SPEAKING
BACKGROUND— STEPS IN IMPLEMENTING
EXPERIMENTAL PROJECT (FOR SCHOOL
INFORMATION).
NEW YORK CITY BOARD OF EDUCATION,
BROOKLYN, N.Y.
REPORT NUMBER PN-22-349
PUB DATE 13 APR 64
EDRS PRICE MF-\$0.25 HC-\$1.20 24P.

DESCRIPTORS— *BILINGUAL STUDENTS,
*EXPERIMENTAL PROGRAMS, *SCIENCES,
*SECONDARY SCHOOLS, *SPANISH, BILINGUALISM,
COURSE OBJECTIVES, LANGUAGE RESEARCH, NEW
YORK CITY, PUERTO RICANS, SCIENCE SPANISH
PROGRAM.

ED 012 753
STARLING, JOHN T. BENDER, RALPH E.
INTEGRATING BIOLOGICAL PRINCIPLES WITH IN-
STRUCTION IN VOCATIONAL AGRICULTURE, A RE-
SEARCH REPORT OF A GRADUATE STUDY.
RESEARCH SERIES IN AGRICULTURAL EDUCATION.
OHIO STATE UNIV., COLUMBUS, COLL. OF AG. HOME
EC.
PUB DATE JUL 65
EDRS PRICE MF-\$0.50 HC-\$3.80 76P.

DESCRIPTORS— *ACHIEVEMENT GAINS, *BIOLOGY,
*PILOT PROJECTS, *TEACHING METHODS,
*VOCATIONAL AGRICULTURE, ACADEMIC
ACHIEVEMENT, COLUMBUS, COMPARATIVE
ANALYSIS, CONTROL GROUPS, OHIO, PROGRAM

EVALUATION, SECONDARY SCHOOL STUDENTS,
STUDENT EVALUATION, STUDENT INTERESTS,
TEACHER ATTITUDES.

ED 013 113
BROOKS, WALTER L. KIELBART, RONALD F.
INSTITUTING A FIRE SCIENCE PROGRAM AT
SHASTA COLLEGE.
PUB DATE JUN 67
EDRS PRICE MF-\$0.25 HC-\$1.80 34P.

DESCRIPTORS— *FIRE SCIENCE EDUCATION,
*JUNIOR COLLEGES, *OCCUPATIONAL SURVEYS,
CALIFORNIA, PROGRAM DEVELOPMENT,
PROGRAM PLANNING, REDDING, VOCATIONAL
EDUCATION.

ED 013 198
HURD, PAUL DE HART ROWE, MARY BUDD
SCIENCE IN THE SECONDARY SCHOOL
PUB DATE JUN 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM, *SCIENCE
EDUCATION, *SECONDARY SCHOOL SCIENCE,
ACADEMIC ACHIEVEMENT, AUDIOVISUAL AIDS,
BIBLIOGRAPHIES, BIOLOGY, CHEMISTRY, EARTH
SCIENCE, FACILITIES, INSTRUCTION, LEARNING
THEORIES, PHYSICS, TEACHING METHODS.

ED 013 199
WORLD GUIDE TO SCIENCE INFORMATION AND
DOCUMENTATION SERVICES.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND
CULT. ORG.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DIRECTORIES, *INFORMATION
CENTERS, *INFORMATION DISSEMINATION,
*NATURAL SCIENCES, DOCUMENTATION, ENGLISH,
FRENCH, INFORMATION RETRIEVAL,
INFORMATION STORAGE, LIBRARIES, UNITED
NATIONS EDUCATIONAL SCIENTIFIC AND
CULTURAL ORGANIZATION (UNESCO).

ED 013 200
BARTLETT, C. J. EDGERTON, HAROLD A.
DIMENSIONS OF SUMMER SCIENCE TRAINING PRO-
GRAMS AS REFLECTED BY THEIR PARTICIPANTS.
PUB DATE FEB 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *PROGRAM EVALUATION, *SCIENCE PROGRAMS, *SECONDARY SCHOOL SCIENCE, *STUDENT CHARACTERISTICS, NATIONAL SCIENCE FOUNDATION, SCIENCE INSTITUTES, SCIENTIFIC MANPOWER, STUDENT INTERESTS, SUMMER SCIENCE TRAINING PROGRAMS.

ED 013 201

HURLBURT, EVELYN M.

RADIOISOTOPE TECHNIQUES FOR INSTRUCTION IN THE BIOLOGICAL SCIENCES. A LIST OF ANNOTATED REFERENCES.

ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.

REPORT NUMBER TID-21262-REV

PUB DATE MAR 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *BIOLOGY, *COLLEGE SCIENCE, *RADIATION BIOLOGY, *RADIOISOTOPES, BIOLOGICAL SCIENCES CURRICULUM STUDY, JUNIOR COLLEGES, LABORATORY EXPERIMENTS, SECONDARY SCHOOL SCIENCE, UNITED STATES ATOMIC ENERGY COMMISSION.

ED 013 202

SORENSEN, LAVAR LEONARD

CHANGE IN CRITICAL THINKING BETWEEN STUDENTS IN LABORATORY-CENTERED AND LECTURE-DEMONSTRATION-CENTERED PATTERNS OF INSTRUCTION IN HIGH SCHOOL BIOLOGY.

OREGON STATE UNIV., CORVALLIS

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *BIOLOGY, *CRITICAL THINKING, *LABORATORY PROCEDURES, *SECONDARY SCHOOL SCIENCE, *TEACHING TECHNIQUES, COMPARATIVE ANALYSIS, CORNELL CRITICAL THINKING TEST (FORM X), DOCTORAL THESES, OREGON STATE UNIVERSITY, OTIS QUICK SCORING MENTAL ABILITY TEST (GAMMA FORM AM), ROKEACH DOGMATISM SCALE (FORM E), TEACHING PROCEDURES, TEST ON UNDERSTANDING SCIENCE (FORM W), WATSON GLASER CRITICAL THINKING APPRAISAL (FORM YM).

ED 013 203

REDMAN, L. A.

THE PHYSICS TEACHERS HANDBOOK

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *AUDIOVISUAL AIDS, *COLLEGE SCIENCE, *INSTRUCTIONAL MATERIALS, *PHYSICS, *SECONDARY SCHOOL SCIENCE, EDUCATIONAL PROGRAMS, ENGLAND, FILMS, FILMSTRIPS, NUFFIELD PHYSICS, REFERENCE BOOKS, SCIENCE COURSES, SCIENCE EDUCATION, SCOTLAND, TEXTBOOKS.

ED 013 205

PELLA, MILTON O. ZIEGLER, ROBERT E.

THE USE OF STATIC AND DYNAMIC MECHANICAL MODELS IN TEACHING ASPECTS OF THE THEORETICAL CONCEPT, THE PARTICLE NATURE OF MATTER.

WISCONSIN UNIV., MADISON

PUB DATE MAR 67

EDRS PRICE MF-\$0.50 HC-\$3.15 61P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *MODELS, AUDIOVISUAL AIDS, CENTER FOR COGNITIVE LEARNING, CONCEPT FORMATION, JANESVILLE, LEARNING, MADISON, PHYSICAL SCIENCES, TEACHING PROCEDURES, TEACHING TECHNIQUES, UNITED STATES OFFICE OF EDUCATION, UNIVERSITY OF WISCONSIN, WISCONSIN.

ED 013 206

BUTLER, DELBERT FRANKLIN

A TEST FOR MEASURING SELECTED LIFE SCIENCE CONCEPTS OF ELEMENTARY SCHOOL CHILDREN, GEORGE PEABODY COLL. FOR TEACHERS, NASHVILLE, TENN.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *TEST CONSTRUCTION, DOCTORAL THESES, GEORGE PEABODY COLLEGE FOR TEACHERS, LIFE SCIENCE CONCEPT TEST, SOCIOECONOMIC INFLUENCES, TEST RELIABILITY, TEST VALIDITY.

ED 013 207

FLOYD, THOMAS WILLIAM

AN ANALYSIS OF THE KNOWLEDGE OF SCIENCE OF PUPILS PRIOR TO INSTRUCTION IN THE SEVENTH GRADE.

ILLINOIS UNIVERSITY, URBANA

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM, *CURRICULUM EVALUATION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 7, *TEXTBOOK EVALUATION, *TEXTBOOKS,

DOCTORAL THESES, GRADE 5, GRADE 6, ILLINOIS,
INSTRUCTIONAL MATERIALS, SECONDARY SCHOOL
SCIENCE.

ED 013 208
LASHIER, WILLIAM STANLEY
AN ANALYSIS OF CERTAIN ASPECTS OF THE
VERBAL BEHAVIOR OF STUDENT TEACHERS OF
EIGHTH GRADE STUDENTS PARTICIPATING IN A
BSCS LABORATORY BLOCK.
TEXAS UNIV., AUSTIN
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *ATTI-
TUDES. *SECONDARY SCHOOL SCIENCE, *STUDENT
TEACHERS, *TEACHER BEHAVIOR, *VERBAL
BEHAVIOR, BIOLOGICAL SCIENCES CURRICULUM
STUDY, BIOLOGY, DOCTORAL THESES, FLANDERS
METHOD OF INTERACTION ANALYSIS, GRADE 8,
INSTRUCTION, INTERACTION PROCESS ANALYSIS,
MICHIGAN STUDENT QUESTIONNAIRE.

ED 013 209
PARAKH, JAL SOHRAB
A STUDY OF TEACHER-PUPIL INTERACTION IN
HIGH SCHOOL BIOLOGY CLASSES.
CORNELL UNIV., ITHACA, N.Y.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY. *INTERACTION
PROCESS ANALYSIS. *SECONDARY SCHOOL
SCIENCE, *STUDENT CHARACTERISTICS, *TEACHER
CHARACTERISTICS. CLASSROOM OBSERVATION.
COGNITIVE DEVELOPMENT, DOCTORAL THESES,
EVALUATION, LEARNING PROCESSES, NEW YORK,
OBSERVATION TECHNIQUES.

ED 013 210
CRAVEN, GENE FRANCIS
CRITICAL THINKING ABILITIES AND
UNDERSTANDING OF SCIENCE BY SCIENCE
TEACHER-CANDIDATES AT OREGON STATE
UNIVERSITY.
OREGON STATE UNIV., CORVALLIS
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CRITICAL
THINKING, *SCIENTIFIC ATTITUDES, *SCIENTIFIC
CONCEPTS, *TEACHER CHARACTERISTICS,
*TEACHER EDUCATION, CORNELL CRITICAL
THINKING TEST, DOCTORAL THESES, OREGON
STATE UNIVERSITY, SCHOLASTIC APTITUDE TEST,
TEACHER UNDERSTANDING SCIENCE.

ED 013 211
JENSEN, JOHN ANDERS
AN ANALYSIS BY CLASS SIZE AND SEX OF ORTHO-
GONALIZED INTEREST AND APTITUDE
PREDICTORS IN RELATION TO HIGH SCHOOL
CHEMISTRY ACHIEVEMENT CRITERIA.
ROCHESTER UNIV., N.Y.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT,
*CHEMISTRY, *DOCTORAL THESES, *INSTRUCTION,
*LEARNING, *PREDICTION, *RESEARCH
METHODOLOGY, *SECONDARY SCHOOL SCIENCE,
*STUDENT CHARACTERISTICS, ACADEMIC
APTITUDE, CLASS SIZE, NEW YORK STATE
REGENTS CHEMISTRY EXAMINATION, SEX
(CHARACTERISTICS), STUDENT INTERESTS.

ED 013 212
JONES, HOWARD LEON
THE DEVELOPMENT OF A TEST OF SCIENTIFIC IN-
QUIRY, USING THE TAB FORMAT, AND AN ANALYSIS
OF ITS RELATIONSHIP TO SELECTED STUDENT BE-
HAVIORS AND ABILITIES.
TEXAS UNIV., AUSTIN
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DOCTORAL THESES, *ELE-
MENTARY SCHOOL SCIENCE, *EVALUATION,
*STUDENT CHARACTERISTICS, *TEST CON-
STRUCTION, *TESTS, ACADEMIC ACHIEVEMENT,
GRADE 4, GRADE 5, GRADE 6, SEQUENTIAL TESTS
OF EDUCATIONAL PROGRESS TEST, STUDENT
ABILITY, STUDENT BEHAVIOR, TAB SCIENCE TEST.

ED 013 213
MENEFEÉ, ROBERT WILLIAM
MEASURING ELEMENTARY SCHOOL CHILDREN'S
ABILITY TO USE EVIDENCE FROM SCIENTIFIC
INSTRUMENTS IN DECISION-MAKING SITUATIONS.
OHIO STATE UNIV., COLUMBUS
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONCEPT FORMATION, *DECISION
MAKING, *DOCTORAL THESES, *ELEMENTARY
SCHOOL SCIENCE, *EVALUATION, *LEARNING,
*PROBLEM SOLVING, *SCIENCE EQUIPMENT,
*SCIENTIFIC CONCEPTS, PIAGET.

ED 013 214
NEUBERGER, HANS NICHOLAS, GEORGE
MANUAL OF LECTURE DEMONSTRATIONS. LABORA-

TORY EXPERIMENTS, AND OBSERVATIONAL EQUIPMENT FOR TEACHING ELEMENTARY METEOROLOGY IN SCHOOLS AND COLLEGES.

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK

PUB DATE AUG 62

EDRS PRICE MS-\$0.75 HC-\$9.55 189P.

DESCRIPTORS— *COLLEGE SCIENCE, *METEOROLOGY, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, EARTH SCIENCE, MODELS, NATIONAL SCIENCE FOUNDATION, PENNSYLVANIA, PENNSYLVANIA STATE UNIVERSITY, SCIENCE DEMONSTRATIONS, SCIENCE EQUIPMENT, SCIENCE EXPERIMENTS, TEACHING TECHNIQUES, UNIVERSITY PARK.

ED 013 215

MAYER, WILLIAM V. AND OTHERS

BIOLOGICAL SCIENCES CURRICULUM STUDY NEWSLETTER.

BIOLOGICAL SCIENCES CURRICULUM STUDY, BOULDER, COLO.

PUB DATE JAN 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, *TEACHER BEHAVIOR, BIBLIOGRAPHIES, BIOLOGICAL SCIENCES CURRICULUM STUDY, COMPREHENSIVE FINAL EXAMINATION (BSCS), CURRICULUM DEVELOPMENT, CURRICULUM EVALUATION, DIFFERENTIAL APTITUDE TESTS, NEWSLETTERS, SCIENCE COURSE IMPROVEMENT PROJECT, STUDENT BEHAVIOR, THE PSYCHOLOGICAL CORPORATION.

ED 013 216

NICODEMUS, ROBERT B.

COOPERATIVE COLLEGE-SCHOOL SCIENCE PROJECT— FIRST, SECOND, AND THIRD YEAR REPORTS.

WASHINGTON ACADEMY OF SCIENCES, WASHINGTON, D. C.

PUB DATE JUL 67

EDRS PRICE MF-\$0.50 HC-\$6.40 126P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, BIOLOGICAL SCIENCES CURRICULUM STUDY, BIOLOGY, COOPERATIVE COLLEGE SCHOOL SCIENCE PROGRAM, ELEMENTARY SCIENCE STUDY, INSERVICE TEACHER EDUCATION, NATIONAL SCIENCE FOUNDATION, PROGRAM DESCRIPTIONS, SCIENCE PROCESS APPROACH, SCIENCE TEACHERS.

ED 013 217

RIPPLE, RICHARD E. ROCKCASTLE, VERNE N. PIAGET REDISCOVERED—SELECTED PAPERS FROM A REPORT OF THE CONFERENCE OF COGNITIVE STUDIES AND CURRICULUM DEVELOPMENT (MARCH 1964).

NATIONAL ASSN. FOR RESEARCH IN SCIENCE TEACHING.

PUB DATE 64

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COGNITIVE DEVELOPMENT, *CONFERENCES, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *INTELLECTUAL DEVELOPMENT, *LEARNING PROCESSES, *LEARNING THEORIES, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, CORNELL UNIVERSITY, ELEMENTARY SCHOOL SCIENCE PROJECT, NATIONAL SCIENCE FOUNDATION, PIAGET, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE CURRICULUM IMPROVEMENT STUDY, UNITED STATES OFFICE OF EDUCATION, UNIVERSITY OF CALIFORNIA.

ED 013 218

PHYSICS TODAY—INTRODUCTORY PHYSICS EDUCATION.

PUB DATE MAR 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, *PHYSICAL SCIENCES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, BERKELEY PHYSICS COURSE, COMMISSION ON COLLEGE PHYSICS, ENGINEERING CONCEPTS CURRICULUM PROJECT, ENGLAND, HARVARD PROJECT PHYSICS, INTRODUCTORY PHYSICAL SCIENCE, NUFFIELD PROJECT, PHYSICAL SCIENCE FOR NON SCIENCE STUDENTS, PHYSICAL SCIENCE STUDY COMMITTEE, SCIENCE COURSE IMPROVEMENT PROJECT, STUDENT ENROLLMENT.

ED 013 219

STOLLER, DAVID S.

REPORT ON THE ORGANIZATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENTS SYMPOSIUM ON THE APPLICATION OF OPERATIONS ANALYSIS TO EDUCATIONAL PROBLEMS (OSLO, SEPTEMBER 28—30, 1966). NATIONAL CENTER FOR EDUCATIONAL STATISTICS DHEW

REPORT NUMBER TN-6

PUB DATE OCT 66

EDRS PRICE MF-\$0.25 HC-\$0.35 5P.

DESCRIPTORS— *CONFERENCE REPORTS, *EDUCATIONAL RESEARCH, *RESEARCH METHODOLOGY,

*SYSTEMS ANALYSIS, ECONOMICS, EDUCATIONAL ADMINISTRATION, EDUCATIONAL PROBLEMS, EVALUATION, NATIONAL CENTER FOR EDUCATIONAL STATISTICS, NORWAY, OPERATIONS ANALYSIS, ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT, OSLO, UNITED STATES OFFICE OF EDUCATION.

ED 013 220

RICHARDSON, JOHN S. HOWE, ROBERT W.
THE ROLE OF CENTERS FOR SCIENCE EDUCATION
IN THE PRODUCTION, DEMONSTRATION, AND
DISSEMINATION OF RESEARCH.
OHIO STATE UNIV., COLUMBUS, RESEARCH FOUNDATION

REPORT NUMBER CRP-Y-002

PUB DATE 66

EDRS PRICE MF-\$0.75 HC-\$6.80 134P.

DESCRIPTORS— *CONFERENCES, *RESEARCH METHODOLOGY, *SCIENCE EDUCATION, *SCIENCE EDUCATION CENTERS, COLUMBUS, EDUCATIONAL PROBLEMS, EDUCATIONAL RESEARCH, OHIO, OHIO STATE UNIVERSITY, RESEARCH PROBLEMS, RESEARCHERS, UNITED STATES OFFICE OF EDUCATION.

ED 013 221

THE ART OF QUESTIONING IN SCIENCE, SUMMARY AND IMPLICATIONS.

LOS ANGELES CITY SCHOOLS, CALIFORNIA

REPORT NUMBER LACS-IB-EC-131

PUB DATE 67

EDRS PRICE MF-\$0.25 HC-\$1.70 32P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *QUESTIONING, TECHNIQUES, *TEACHING TECHNIQUES, BLOOMS TAXONOMY OF EDUCATIONAL OBJECTIVES, CALIFORNIA, INSTRUCTION, LOS ANGELES CITY SCHOOLS, PROBLEM SOLVING, TEACHING GUIDES.

ED 013 222

MELLON, M. G.

CHEMICAL PUBLICATIONS, THEIR NATURE AND USE.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CHEMISTRY, *COLLEGE SCIENCE, *LIBRARY INSTRUCTION, *REFERENCE MATERIALS, BIBLIOGRAPHIES, DICTIONARIES, DIRECTORIES, DOCTORAL THESES, ENCYCLOPEDIAS, PERIODICALS, TEXTBOOKS.

ED 013 225

LEE, PHILIP R. AND OTHERS

CONFERENCE ON ALCOHOL EDUCATION (WASHINGTON, D. C., MARCH 29, 1966).

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE

PUB DATE MAR 66

EDRS PRICE MF-\$0.50 HC-\$3.85 75P.

DESCRIPTORS— *BIOLOGY, *CONFERENCE REPORTS, *ELEMENTARY EDUCATION, *HEALTH EDUCATION, *SECONDARY EDUCATION, ALCOHOL EDUCATION, EDUCATIONAL OBJECTIVES, INSTRUCTION, TEACHER EDUCATION, UNITED STATES DEPARTMENT OF HEALTH EDUCATION, AND WELFARE.

ED 013 226

YATES, B.

HOW TO FIND OUT ABOUT PHYSICS.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *PHYSICS, *SECONDARY SCHOOL SCIENCE, BIOGRAPHIES, DICTIONARIES, ENCYCLOPEDIAS, INFORMATION CENTERS, SCIENCE CAREERS, TEXTBOOKS.

ED 013 275

HABER, LOUIS

THE ROLE OF THE AMERICAN NEGRO IN THE FIELDS OF SCIENCE, FINAL REPORT.

REPORT NUMBER BR-6-8353

PUB DATE SEP 66

EDRS PRICE MF-\$0.50 HC-\$3.65 71P.

DESCRIPTORS— *NEGROES, *PILOT PROJECTS, *RESOURCE MATERIALS, *SCIENCES, BIBLIOGRAPHIES, BIOGRAPHIES, BIOLOGY, CHEMISTRY, CURRICULUM DEVELOPMENT, PHYSICIANS.

ED 013 295

USING SOIL AND OTHER PLANT GROWING MEDIA EFFECTIVELY. HORTICULTURE-SERVICE OCCUPATIONS, MODULE NO. 5.

OHIO STATE UNIV., COLUMBUS, CENTER FOR VOC. EDUC.

REPORT NUMBER OSU-AGDEX-200-017-5

PUB DATE AUG 65

EDRS PRICE MF-\$0.50 HC-\$5.95 117P.

DESCRIPTORS— *HORTICULTURE, *ORNAMENTAL HORTICULTURE OCCUPATION, *SOIL SCIENCE, *TEACHING GUIDES, *VOCATIONAL AGRICULTURE, BIBLIOGRAPHIES, HIGH SCHOOLS, UNITS OF STUDY (SUBJECT FIELDS).

ED 013 664
LIPSON, JOSEPH I.
AN INDIVIDUALIZED SCIENCE LABORATORY.
PITTSBURGH UNIV., PA., LEARNING RES. AND DEV.
CTR.
REPORT NUMBER UP-RD-CTR-REPRINT-17
PUB DATE DEC 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INDIVIDUAL INSTRUCTION,
*PRIMARY GRADES, *SCIENCE CURRICULUM,
*SCIENCE LABORATORIES, AAAS, PENNSYLVANIA,
PITTSBURGH, PROGRAMED TEXTS, SCIENCE
EQUIPMENT, SCIENCE PROGRAMS, SCIS.

ED 013 707
PENROSE, ROBERT AND OTHERS
READING FOR THE GIFTED—GUIDED EXTENSION
OF READING SKILLS THROUGH LITERATURE, PART
2, APPRECIATING THE CONTRIBUTIONS OF SCIENCE
THROUGH BIOGRAPHY.
LOS ANGELES CITY SCHOOLS, CALIF.
REPORT NUMBER LACS-INSTR-BULL-EC-118
PUB DATE 66
EDRS PRICE MF-\$0.50 HC-\$5.15 101P.

DESCRIPTORS— *GIFTED, *READING
INSTRUCTION, *SCIENCE EDUCATION, *TEACHING
GUIDES, BIOGRAPHIES, GRADE 5, GRADE 6,
LITERATURE APPRECIATION, LOS ANGELES CITY
SCHOOLS, SCIENCE MATERIALS.

ED 013 752
MC ELHINEY, DAVID STANLEY
AN EVALUATION OF NINTH-GRADE SCIENCE FOR
THE ACADEMICALLY TALENTED.
OKLAHOMA STATE UNIV., STILLWATER, GRAD.
SCHOOL
PUB DATE AUG 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ABLE STUDENTS, *GRADE 9, SEC-
ONDARY SCHOOL SCIENCE, *STUDENT SCIENCE IN-
TERESTS, BIOLOGY, EARTH SCIENCE, GENERAL SCI-
ENCE, IOWA TEST OF EDUCATIONAL
DEVELOPMENT, KUDER INTEREST INVENTORY,
PHYSICAL SCIENCES, SCIENCE CAREERS,
SECONDARY SCHOOL STUDENTS.

ED 013 753
BEARDSLEY, EDWARD H.
THE RISE OF THE AMERICAN CHEMISTRY PROFES-
SION, 1850—1900.
PUB DATE 64
PRICE MF-\$0.50 HC NOT
AVAILABLE FROM EDRS. 84P.

DESCRIPTORS— *CHEMISTRY, *COLLEGE SCIENCE,
*CURRICULUM, *PROFESSIONAL ASSOCIATIONS, A-
MERICAN ASSOCIATION FOR THE ADVANCEMENT
OF SCIENCE, AMERICAN CHEMICAL SOCIETY,
BIBLIOGRAPHIES, COLLEGES, GERMANY, HIGHER
EDUCATION, UNITED STATES, UNIVERSITIES.

ED 013 754
HURLBURT, EVELYN M.
RADIOISOTOPE EXPERIMENTS IN HIGH SCHOOL
BIOLOGY, AN ANNOTATED SELECTED
BIBLIOGRAPHY.
ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.
PUB DATE SEP 66
EDRS PRICE MF-\$0.25 HC-\$1.30 24P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES,
*BIOLOGY, *INSTRUCTIONAL MATERIALS,
*RADIATION BIOLOGY, *SCIENCE ACTIVITIES,
*SECONDARY SCHOOL SCIENCE, CHEMISTRY,
PHYSICS, RADIOISOTOPES, REFERENCE
MATERIALS, UNITED STATES ATOMIC ENERGY
COMMISSION.

ED 013 755
A SUGGESTED CHECKLIST FOR ASSESSING A
SCIENCE PROGRAM.
OFFICE OF EDUCATION, WASHINGTON, D.C.
REPORT NUMBER OE-29034-A
PUB DATE JAN 64
EDRS PRICE MF-\$0.25 HC-\$1.10 20P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM
EVALUATION, *ELEMENTARY SCHOOL SCIENCE,
*EVALUATION, *EVALUATION TECHNIQUES,
*PROGRAM EVALUATION, *SECONDARY SCHOOL
SCIENCE, SELECTED SCIENCE SERVICES, UNITED
STATES OFFICE OF EDUCATION.

ED 013 756
ACKERSON, PAUL BERNDT
A STUDY OF THE RELATIONSHIP BETWEEN
ACHIEVEMENT IN PSSC PHYSICS AND
EXPERIENCE IN RECENTLY DEVELOPED COURSES
IN SCIENCE AND MATHEMATICS.
OKLAHOMA STATE UNIV., STILLWATER, AGRIC.-
APPL. SCI.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT,
*PHYSICS, *SECONDARY SCHOOL SCIENCE,
BIOLOGICAL SCIENCES CURRICULUM STUDY,
BIOLOGY, CHEMICAL BONDING, CHEMICAL
EDUCATION MATERIALS STUDY, CHEMISTRY,
DOCTORAL THESES, MATHEMATICS, PHYSICAL

SCIENCE STUDY COMMITTEE, PREDICTION, SCHOOL
MATHEMATICS STUDY GROUP.

ED 013 757

BERRY, WILLIAM E.

THE COMPARATIVE EFFECTS OF PSSC PHYSICS AND
TRADITIONAL PHYSICS ON STUDENT
ACHIEVEMENT.

ARIZONA STATE UNIV., TEMPE

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *CUR-
RICULUM DEVELOPMENT, *DOCTORAL THESES,
*PHYSICS, *SECONDARY SCHOOL SCIENCE,
*STUDENT CHARACTERISTICS, COMPARATIVE
ANALYSIS, COOPERATIVE PHYSICS TEST, PHYSICAL
SCIENCE STUDY COMMITTEE, PHYSICAL SCIENCE
STUDY COMMITTEE FINAL EXAMINATION.

ED 013 758

ARVEY, M. DALE RIEMER, WILLIAM J.

INLAND BIOLOGICAL FIELD STATIONS OF THE
UNITED STATES.

AMERICAN INST. OF BIOLOGICAL SCIENCES

PUB DATE APR 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *FIELD INSTRUCTION,
*OUTDOOR EDUCATION, *SCIENCE FACILITIES, COL-
LEGE SCIENCE, DIRECTORIES, ECOLOGY,
NATIONAL SCIENCE FOUNDATION, RESEARCH.

ED 013 759

SHOWALTER, VICTOR M. SLESNICK, IRWIN L.

IDEAS FOR SCIENCE INVESTIGATIONS

NATIONAL SCIENCE TEACHERS ASSN.,
WASHINGTON, D.C.

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS, *SCI-
ENCE ACTIVITIES, *SCIENCE PROJECTS,
*SECONDARY SCHOOL SCIENCE, *STUDENT
RESEARCH, BIOLOGY, CHEMISTRY, NATIONAL
SCIENCE TEACHERS ASSOCIATION, PHYSICS.

ED 013 760

SCIENCE COURSE IMPROVEMENT PROJECTS. 2.
SCIENCE TEACHING EQUIPMENT.

NATIONAL SCIENCE FOUNDATION, WASHINGTON,
D.C.

REPORT NUMBER NSF-63-15

PUB DATE MAY 63

PRICE MF-\$0.25 HC-\$2.60 59P.



DESCRIPTORS— *COLLEGE SCIENCE, *SCIENCE
EQUIPMENT, *SECONDARY SCHOOL SCIENCE,
ANTHROPOLOGY, AUDIOVISUAL AIDS, BIOLOGY,
CHEMISTRY, EARTH SCIENCE, ELEMENTARY
SCHOOL SCIENCE, ENGINEERING, LABORATORY
EQUIPMENT, MATHEMATICS, METEOROLOGY,
MODELS, NATIONAL SCIENCE FOUNDATION,
PSYCHOLOGY, SCIENCE COURSE IMPROVEMENT
PROJECT, SCIENCE TEACHING EQUIPMENT
DEVELOPMENT PROGRAM.

ED 013 761

HEDGES, WILLIAM D.

TESTING AND EVALUATION FOR THE SCIENCES IN
THE SECONDARY SCHOOL.

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EVALUATION, *SECONDARY
SCHOOL SCIENCE, *TEST CONSTRUCTION, *TESTS,
BIBLIOGRAPHIES, BIOLOGY, CHEMISTRY,
GENERAL SCIENCE, PHYSICS, STUDENT
EVALUATION, TAXONOMY OF EDUCATIONAL
OBJECTIVES.

ED 013 762

TAYLOR, CALVIN W.

THE 1957 UNIVERSITY OF UTAH RESEARCH CONFER-
ENCE ON THE IDENTIFICATION OF CREATIVE
SCIENTIFIC TALENT (2D, BRIGHTON, UTAH,
AUGUST 17-20, 1957).

PUB DATE 58

EDRS PRICE MF-\$1.00 HC-\$13.40 266P.

DESCRIPTORS— *CONFERENCE REPORTS,
*CREATIVITY, *LEARNING THEORIES, *RESEARCH
REVIEWS (PUBLICATIONS), *SCIENCE EDUCATION,
*SCIENTIFIC MANPOWER, ABILITY, CONCEPT
MASTERY TEST, CULTURAL FACTORS,
ENGINEERING, INTELLIGENCE, INTELLIGENCE
FACTORS, INTERESTS, NATIONAL SCIENCE
FOUNDATION, OFFICE OF NAVAL RESEARCH,
PERSONALITY, PROBLEM SOLVING, SCIENTISTS,
STANFORD UNIVERSITY, TALENT IDEN-
TIFICATION, UNIVERSITY OF UTAH, VERBAL
ABILITY.

ED 013 763

LOMBARD, JOHN W. OWEN, WILLIAM B.

OBJECTIVES OF SCIENCE EDUCATION, COMPILED
AS A GUIDE TO THE DEVELOPMENT OF AN
ASSESSMENT PROGRAM IN SCIENCE EDUCATION.
SCIENCE RESEARCH ASSOCIATES INC., CHICAGO,
ILL.

PUB DATE DEC 65

EDRS PRICE MF-\$0.25 HC-\$2.75 53P.

DESCRIPTORS— *EDUCATIONAL OBJECTIVES, *SCIENCE EDUCATION, *SCIENTIFIC ATTITUDES, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, CARNEGIE FOUNDATION, COLLEGE SCIENCE, CURRICULUM EVALUATION, ELEMENTARY SCHOOL SCIENCE, EVALUATION, SCIENTIFIC LITERACY, TAXONOMY OF EDUCATIONAL OBJECTIVES.

ED 013 764

TEACHER'S SOURCEBOOK FOR EXPLORING THE WORLD OF SCIENCE. AN INSTRUCTIONAL PROGRAM FOR THE PRIMARY GRADES USING TELEVISION. NORTH CAROLINA STATE BOARD OF EDUCATION RALEIGH

PUB DATE 67

EDRS PRICE MF-\$0.50 HC-\$4.30 84 P.

DESCRIPTORS— *EDUCATIONAL PROGRAMS, *EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, BIOLOGY, EARTH SCIENCE, PHYSICAL SCIENCES, PRIMARY GRADES, TEACHER SOURCEBOOKS, TELEVISION.

ED 013 765

CORRELL, MALCOM STRASSENBURG, ARNOLD A. THE PROCEEDINGS OF THE BOULDER CONFERENCE ON PHYSICS FOR NONSCIENCE MAJORS (BOULDER, COLORADO, JULY 20—29, 1964). COMMISSION ON COLLEGE PHYSICS, ANN ARBOR, MICH.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CONFERENCE REPORTS, *CURRICULUM, *PHYSICS, *SCIENCE COURSES, BIBLIOGRAPHIES, BOULDER, CHEMISTRY, COLORADO, COMMISSION ON COLLEGE PHYSICS, COURSE CONTENT, COURSE ORGANIZATION, EDUCATIONAL PROBLEMS, LABORATORY PROCEDURES, NATIONAL SCIENCE FOUNDATION, NATURAL SCIENCES, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, TEACHING PROCEDURES, UNIVERSITY OF COLORADO.

ED 013 766

ELLIS, SUSANNE D. MAGUIRE, CLARE-BETH PHYSICS MANPOWER 1966—EDUCATION AND EMPLOYMENT STATISTICS. AMERICAN INST. OF PHYSICS, NEW YORK, N.Y. REPORT NUMBER AIP-PUB-R-196

PUB DATE NOV 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *EMPLOYMENT STATISTICS, *PHYSICS, *SCIENTIFIC MANPOWER, *SCIENTISTS, *SECONDARY SCHOOL SCIENCE, AMERICAN INSTITUTE OF PHYSICS, DROPOUTS, ENROLLMENT, ENROLLMENT TRENDS, GRADUATE STUDY, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCE STUDY COMMITTEE, SALARIES, STATISTICAL DATA, SURVEYS, TEACHERS, UNDERGRADUATE STUDY.

ED 013 767

TAYLOR, CALVIN W. BARRON, FRANK SCIENTIFIC CREATIVITY—ITS RECOGNITION AND DEVELOPMENT.

PUB DATE 63

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CREATIVITY, *LEARNING THEORIES, *TALENT IDENTIFICATION, BIBLIOGRAPHIES, CONFERENCE REPORTS, EDUCATIONAL RESEARCH, NATIONAL SCIENCE FOUNDATION, NATURAL SCIENCES, TALENT DEVELOPMENT, UNIVERSITY OF UTAH.

ED 014 193 56

MALLINSON, GEORGE G.

PROGRAMMED LEARNING MATERIALS FOR THE BLIND.

WESTERN MICHIGAN UNIV., KALAMAZOO

REPORT NUMBER BR-5-0758

PUB DATE MAR 67

CONTRACT OEC-7-32-0580-191

EDRS PRICE MF-\$0.50 HC-\$4.35 85P.

DESCRIPTORS— *BLIND, *BRAILLE, *PROGRAMED INSTRUCTION, *SCIENCE EDUCATION, ADOLESCENTS, INSTRUCTIONAL MATERIALS, JUNIOR HIGH SCHOOL STUDENTS, LEARNING PROCESSES, PROGRAMED MATERIALS, SCIENCE INSTRUCTION, SCIENCE MATERIALS, SCIENCE PROGRAMS, STIMULUS DEVICES.

ED 014 216

TSUJI, ISAO

THE EFFECT OF TV SCHOOL BROADCAST ON CHILDREN IN ISOLATED VILLAGES.

NHK RADIO AND TV CULTURE RESEARCH INST.

PUB DATE 64

EDRS PRICE MF-\$0.25 HC-\$1.15 21P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *GRADE 5, *INSTRUCTIONAL TELEVISION, *SOCIAL STUDIES,

CONVENTIONAL INSTRUCTION, CULTURAL ISOLATION, EXPERIMENTS, INTELLIGENCE TESTS, JAPAN, JAPAN BROADCASTING CORPORATION, PRIMARY EDUCATION, RURAL EDUCATION.

ED 014 219

FILEP, ROBERT T. MURPHY, D. BRIAN
COMPUTER-ASSISTED LEARNING FOR IN-SERVICE
TEACHER EDUCATION.
SYSTEM DEVELOPMENT CORP., SANTA MONICA,
CALIF.

REPORT NUMBER TM-(L)-3494

PUB DATE 15 MAY 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT GAINS, *BIOLOGY
INSTRUCTION, *COMPUTER ASSISTED
INSTRUCTION, *FIELD STUDIES, *INSERVICE
TEACHER EDUCATION, ALBANY, NEW YORK.

ED 014 380

MALLINSON, GEORGE G.
TEACHING THE ESSENTIAL READING SKILLS IN
SCIENCE.

PUB DATE 5 MAY 67

EDRS PRICE MF-\$0.25 HC-\$0.85 15P.

DESCRIPTORS— *CONTENT READING,
*ELEMENTARY SCIENCE, *READING SKILLS,
BOOKS, COMMUNICATIONS, INFORMATION
SOURCES, PERCEPTION, POPULATION GROWTH,
TECHNOLOGICAL ADVANCEMENT.

ED 014 418

ILLUSTRATIONS OF RADIOISOTOPES—DEFINITIONS
AND APPLICATIONS.

ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.

PUB DATE 65

EDRS PRICE MF-\$0.75 HC-\$8.35 165P.

DESCRIPTORS— *ILLUSTRATIONS, *INSTRUC-
TIONAL MATERIALS, *RADIOISOTOPES, *SCIENCE
MATERIALS, *SECONDARY SCHOOL SCIENCE,
*TRANSPARENCIES, AGRICULTURE, ATOMIC
ENERGY COMMISSION, AUDIOVISUAL AIDS,
BIOLOGY, CHEMISTRY, INDUSTRY, OAK RIDGE,
PHYSICAL SCIENCES, PHYSICS, TECHNOLOGY,
TENNESSEE.

ED 014 420

DECKER, MARTIN GEORGE

THE DIFFERENTIAL EFFECTS UPON THE
LEARNING OF THE NATURAL SCIENCES BY FIFTH
GRADERS OF TWO MODES OF TEACHING OVER
TELEVISION AND IN THE CLASSROOM.

BOSTON UNIV., MASS., SCH. OF EDUCATION.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT, *DOCTORAL
THESES, *ELEMENTARY SCHOOL SCIENCE,
*INSTRUCTION, *PROBLEM SOLVING, BOSTON,
COMPARATIVE ANALYSIS, GRADE 5, INSTRU-
CTIONAL TELEVISION, LEARNING, MASSACHUSETTS,
MINNESOTA TEACHER ATTITUDE INVENTORY,
NATURAL SCIENCES, TELEVISION.

ED 014 421

LIPPINCOTT, W. T. BRASTED, R. C.

MODERN TEACHING AIDS FOR COLLEGE
CHEMISTRY—

PORTABLE VIDEO RECORDING SYSTEMS, NEW
USES FOR FILMS, COMPUTER ASSISTED
INSTRUCTION.

ADVISORY COUNCIL ON COLL. CHEMISTRY

REPORT NUMBER ACCC-TAC-SER-PUB-18

PUB DATE DEC 66

EDRS PRICE MF-\$0.25 HC-\$2.80 54P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *CHEMISTRY,
*COLLEGE SCIENCE, *CONFERENCE REPORTS, *IN-
STRUCTION, ADVISORY COUNCIL ON COLLEGE
CHEMISTRY, BIBLIOGRAPHIES, COMPUTER
ASSISTED INSTRUCTION, EDUCATIONAL
TELEVISION, FILMS, PROJECTION EQUIPMENT,
STANFORD UNIVERSITY, TELEVISION.

ED 014 422 24

MAGAT, PHYLLIS L. MILLER, WILFRED H., JR.

DEVELOPMENT OF INSTRUCTIONAL MATERIALS
FOR A FUSED CHEMISTRY-PHYSICS COURSE.
FINAL REPORT.

ALFRED I. DUPONT SCHOOL DISTRICT,
WILMINGTON, DEL.

REPORT NUMBER BR-6-8448

PUB DATE MAY 67

CONTRACT OEC-1-6-068448-1683

EDRS PRICE MF-\$0.50 HC-\$4.50 88P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *INSTRUCTIONAL MATERIALS, *PHYSICS, *SCIENCE COURSES, *SECONDARY SCHOOL SCIENCE, ABLE STUDENTS, CHEMISTRY, CURRICULUM, CURRICULUM GUIDES, DELAWARE, FACTOR ANALYSIS, FUSED CHILD DEVELOPMENT, HEAD START, METHODS, PSI, TEAM TEACHING, WILMINGTON.

ED 014 423

VAN DEVENTER, W. C.

MICHIGAN SCIENCE CURRICULUM COMMITTEE
JUNIOR HIGH SCHOOL PROJECT. (TITLE SUPPLIED).

PUB DATE 67

EDRS PRICE MF-\$1.25 HC-\$14.70 292P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ECOLOGY, *INQUIRY TRAINING, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS, *UNIFIED SCIENCE, BIOLOGY, CHEMISTRY, CONCEPT TEACHING, EARTH SCIENCE, EDUCATIONAL OBJECTIVES, EVALUATION, GENERAL SCIENCE, GRADE 7, INSTRUCTIONAL MATERIALS, PHYSICAL SCIENCES, SCIENCE COURSE IMPROVEMENT PROJECT, TEACHING GUIDES.

ED 014 424

OSHIMA, EUGENE AKIO

CHANGES IN ATTITUDES TOWARD SCIENCE AND
CONFIDENCE IN TEACHING SCIENCE OF
PROSPECTIVE ELEMENTARY TEACHERS.

OKLAHOMA STATE UNIV., STILLWATER, GRAD.
SCHOOL

PUB DATE JUL 66

EDRS PRICE MF-\$0.50 HC-\$5.20 102P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *METHODS COURSES, *TEACHER EDUCATION, *UNDER-GRADUATE STUDY, BIOLOGY, COMPARATIVE ANALYSIS, DOCTORAL THESES, EDUCATIONAL OBJECTIVES, FEMALES, INSTRUCTION, OKLAHOMA, OKLAHOMA STATE UNIVERSITY, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENTIFIC LITERACY, STILLWATER, STUDENT BEHAVIOR, STUDENT TEACHING, TEACHER ATTITUDES, TEACHER CHARACTERISTICS, TEACHING METHODS.

ED 014 425

LYONS, RAYMOND F.

PROBLEMS AND STRATEGIES OF EDUCATIONAL
PLANNING—LESSONS FROM LATIN AMERICA.

UNITED NATIONS EDUCATIONAL SCIENTIFIC AND
CULT. ORG.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DEVELOPING NATIONS, *EDUCATIONAL IMPROVEMENT, *EDUCATIONAL PLANNING, *EDUCATIONAL PROGRAMS, *INTERNATIONAL EDUCATION, *MANPOWER DEVELOPMENT, ADMINISTRATIVE ORGANIZATION, ADULT EDUCATION, AGRICULTURAL EDUCATION, CONFERENCE REPORTS, ECONOMIC DEVELOPMENT, EDUCATIONAL NEEDS, EDUCATIONAL PROBLEMS, ELEMENTARY EDUCATION, HIGHER EDUCATION, INTERNATIONAL INSTITUTE FOR EDUCATIONAL PLANNING, LATIN AMERICA, SCIENCE EDUCATION, SECONDARY EDUCATION, SOCIAL CHANGE, SOCIAL DEVELOPMENT, SOCIAL PROBLEMS.

ED 014 426

MATTHEWS, WILLIAM H., III

SOURCES OF EARTH SCIENCE INFORMATION
REPORT NUMBER RS-1

PUB DATE MAR 64

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DIRECTORIES, *EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *INFORMATION SOURCES, *SCIENCE FACILITIES, *SECONDARY SCHOOL SCIENCE, ASTRONOMY, CANADA, COLLEGE SCIENCE, COLLEGES, EARTH SCIENCE CURRICULUM PROJECT, GEOLOGY, METEOROLOGY, MUSEUMS, OCEANOLOGY, PHYSICAL GEOGRAPHY, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE PROJECTS.

ED 014 427

WEAVER, CHARLES E.

PROCEEDINGS OF THE CONFERENCE ON THE
CHANGING IDENTITY OF GRADUATE EARTH
SCIENCE EDUCATION (ATLANTA, JANUARY 25—26,
1965).

GEORGIA INST. OF TECHNOLOGY, ATLANTA

PUB DATE 65

EDRS PRICE MF-\$0.75 HC-\$9.30 184P.

DESCRIPTORS— *COLLEGE SCIENCE. *EARTH SCIENCE. *EDUCATIONAL PROGRAMS. *GRADUATE STUDY. *HIGHER EDUCATION. BIBLIOGRAPHIES. CONFERENCE REPORTS. EDUCATIONAL NEEDS. GEOLOGY. METEOROLOGY. NATIONAL SCIENCE FOUNDATION. OCEANOLOGY. PROFESSIONAL EDUCATION. TEACHER EDUCATION.

ED 014 428 24
ENGELMANN, SIEGFRIED GALLAGHER, JAMES J.
A STUDY OF HOW A CHILD LEARNS CONCEPTS
ABOUT CHARACTERISTICS OF LIQUID MATERIALS.
FINAL REPORT.
ILLINOIS UNIV., URBANA. INST. RES. EXCEPT. CHILDREN
REPORT NUMBER CRP-S-268
REPORT NUMBER BR-5-8041
PUB DATE NOV 66
CONTRACT OEC-5-10-352
EDRS PRICE MF-\$0.50 HC-\$3.40 66P.

DESCRIPTORS— *COGNITIVE DEVELOPMENT. *CONCEPT FORMATION. *ELEMENTARY SCHOOL SCIENCE. *LEARNING THEORIES. *READINESS (MENTAL). COGNITIVE PROCESSES. GRADE 1. ILLINOIS. KINDERGARTEN. MATURATION. PEABODY PICTURE VOCABULARY TEST. PIAGET. URBANA.

ED 014 429 24
DRENCHKO, ELIZABETH K.
THE COMPARATIVE EFFECTIVENESS OF TWO
METHODS OF TEACHING GRADE SCHOOL SCIENCE.
RUTGERS, THE STATE UNIV., NEW BRUNSWICK, N.J.
REPORT NUMBER CRP-S-351
REPORT NUMBER BR-5-8054
PUB DATE 66
EDRS PRICE MF-\$0.50 HC-\$5.10 100P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT. *EFFECTIVE TEACHING. *ELEMENTARY SCHOOL SCIENCE. *INSTRUCTION. *TEACHING METHODS. BIBLIOGRAPHIES. BIOLOGY. COMPARATIVE ANALYSIS. CONCEPT FORMATION. EARTH SCIENCE. EDUCATIONAL OBJECTIVES. GENERAL SCIENCE. GRADE 4. PHYSICAL SCIENCES. PROBLEM SOLVING. SEQUENTIAL TEST OF EDUCATIONAL PROGRESS. (SCIENCE TEST FORM 4A). SEQUENTIAL TEST OF EDUCATIONAL PROGRESS (SCIENCE TEST FORM 4A).

ED 014 431
LOCKARD, J. DAVID AND OTHERS
DIRECTORY OF BIOSCIENCE DEPARTMENTS IN THE
UNITED STATES AND CANADA.
AMERICAN INST. OF BIOLOGICAL SCIENCES
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY. *COLLEGE FACULTY. *COLLEGE SCIENCE. *DEGREES (TITLES). *DIRECTORIES. *EDUCATIONAL PROGRAMS. AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES. HIGHER EDUCATION. PROGRAM DESCRIPTIONS. SECONDARY SCHOOL SCIENCE. TEACHER EDUCATION.

ED 014 432 24
SMITH, GARY R.
PROBABILITY ESTIMATES OF THE CAPACITIES OF
INTERMEDIATE PUPILS TO UNDERSTAND
SELECTED PHYSICAL SCIENCE GENERALIZATIONS.
FINAL REPORT.
WAYNE STATE UNIV., DETROIT, MICH.
REPORT NUMBER BR-5-1047
PUB DATE AUG 67
CONTRACT OEC-5-10-101
EDRS PRICE MF-\$1.75 HC-\$23.95 477P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT. *COMPREHENSION. *CONCEPT FORMATION. *GRADE 4. *GRADE 5. *GRADE 6. *INSTRUCTION. *INSTRUCTIONAL MATERIALS. *LEARNING. *PHYSICAL SCIENCES. *SCIENCE UNITS. *SOCIOECONOMIC INFLUENCES. BIBLIOGRAPHIES. CURRICULUM DEVELOPMENT. DETROIT. ELECTRICITY. HEAT. MICHIGAN. STUDENT CHARACTERISTICS.

ED 014 434 24
JOHNSON, CARL S. DAMBACH, CHARLES A.
CONVERSATION-MATERIALS CONSERVATION, A SUR-
VEY OF PRINTED MATERIALS FOR CONSERVATION
EDUCATION.
OHIO STATE UNIV., COLUMBUS, RESEARCH FOUNDATION
REPORT NUMBER CRP-2213
REPORT NUMBER BR-5-1058
PUB DATE 66
EDRS PRICE MF-\$1.25 HC-\$14.85 295P.

DESCRIPTORS— *CONSERVATION EDUCATION. *INSTRUCTIONAL MATERIALS. ADULT EDUCATION. BIOLOGY. COLLEGE SCIENCE. EARTH SCIENCE. ELEMENTARY SCHOOL SCIENCE. EVALUATION. NATURAL RESOURCES. READABILITY. REFERENCE MATERIALS. SCIENCE MATERIALS. SECONDARY SCHOOL SCIENCE. UNITED STATES OFFICE OF EDUCATION.

ED 014 435

MILLS, THOMAS S. CAIN, ROBERT W.
THE PROSPECTIVE MANPOWER SITUATION FOR SCIENCE AND ENGINEERING STAFF IN UNIVERSITIES AND COLLEGES. 1965—75.
NATIONAL SCIENCE FOUNDATION. WASHINGTON, D.C.

REPORT NUMBER NSF-67-11

PUB DATE 67

EDRS PRICE MF-\$0.25 HC-\$1.65 31P.

DESCRIPTORS— *ENGINEERS. *HIGHER EDUCATION. *MANPOWER UTILIZATION. *SCIENCES. *SCIENTIFIC MANPOWER. *TEACHER SUPPLY AND DEMAND. BACHELORS DEGREES. BIOLOGY. COLLEGE SCIENCE. DOCTORAL DEGREES. ENGINEERING. FEDERAL PROGRAMS. GRADUATE STUDY. INSTRUCTIONAL STAFF. MASTERS DEGREES. MATHEMATICS. NATIONAL SCIENCE FOUNDATION. PHYSICAL SCIENCES. PHYSICS. SCIENTISTS. SOCIAL SCIENCES. STUDENT TEACHER RATIO. UNITED STATES OFFICE OF EDUCATION.

ED 014 436

INGERSOLL, JONATHAN E. AND OTHERS
THE 1967 SUMMER SCIENCE PROJECT AT UNIVERSITY SCHOOL.

CLEVELAND PUBLIC SCHOOLS, OHIO
UNIVERSITY SCHOOL, SHAKER HEIGHTS, OHIO
NATURAL SCIENCE MUSEUM, CLEVELAND, OHIO

PUB DATE 67

EDRS PRICE MF-\$0.25 HC-\$2.95 57P.

DESCRIPTORS—*CONSERVATION EDUCATION. *CURRICULUM DEVELOPMENT. *ECOLOGY. *FIELD EXPERIENCE PROGRAMS. *NATURAL SCIENCES. *PROGRAM DESCRIPTIONS. *SCIENCE COURSE IMPROVEMENT PROJECT. *SECONDARY SCHOOL SCIENCE. AUDIOVISUAL AIDS. BIOLOGY. CLEVELAND. COMMUNITY RESOURCES. DISADVANTAGED YOUTH. EARTH SCIENCE. FIELD INSTRUCTION. FIELD STUDIES. GEOLOGY. GRADE 7. GRADE 8. GRADE 9. INSTRUCTIONAL MATERIALS. OHIO. SUMMER INSTITUTES. THE CLEVELAND FOUNDATION.

ED 014 437

DIRECTORY AND PROCEEDINGS.
ACADEMY—CONFERENCE—1966.

AMERICAN ASSN. FOR THE ADVANCEMENT OF SCIENCE

PUB DATE 66

EDRS PRICE MF-\$0.75 HC-\$6.70 132P.

DESCRIPTORS— *COLLEGE SCIENCE, *CONFERENCE REPORTS, *DIRECTORIES, *PROFESSIONAL ASSOCIATIONS, *SCIENTIFIC LITERACY. *SECONDARY SCHOOL SCIENCE, ACADEMY CONFERENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, CONFERENCES, JUNIOR ACADEMY OF SCIENCE.

ED 014 483

CURRICULUM GUIDE FOR THE SLOWER-LEARNER IN SECONDARY ENGLISH, SOCIAL STUDIES, AND SCIENCE.

MEXICO PUBLIC SCHOOLS, MO.

PUB DATE JUN 66

EDRS PRICE MF-\$0.75 HC-\$8.05 159P.

DESCRIPTORS— *CURRICULUM GUIDES, *ENGLISH INSTRUCTION, *SCIENCE CURRICULUM, *SLOW LEARNERS, *SOCIAL STUDIES UNITS, INDIVIDUAL INSTRUCTION. INDIVIDUALIZED PROGRAMS, LANGUAGE ARTS, MEXICO PUBLIC SCHOOLS, MISSOURI. ORAL ENGLISH, SECONDARY EDUCATION, TEACHING GUIDES.

ED 014 737

HARMON, LINDSEY R.

PROFILES OF PH.D'S IN THE SCIENCES. SUMMARY REPORT ON FOLLOW-UP OF DOCTORATE COHORTS, 1935—1960.

NATIONAL ACADEMY OF SCIENCES—NATIONAL RES. COUNCIL.

REPORT NUMBER NAS-PUB-1293

PUB DATE 65

EDRS PRICE MF-\$0.75 HC-\$6.80 134P.

DESCRIPTORS— *CAREERS, *DOCTORAL DEGREES, *FEMALES, *MALES, *SCIENCES, EDUCATION, FAMILY (SOCIOLOGICAL UNIT), FINANCIAL SUPPORT, GEOGRAPHIC LOCATION, GOVERNMENT ROLE, INCOME.

ED 014 887

TELEVISION IN SCIENCE EDUCATION, NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION NEWS SUPPLEMENT NUMBER SIX.

NATIONAL CENTER FOR SCHOOL AND COLL. TELEVISION

EDRS PRICE MF-\$0.25 HC-\$6.00 10P.

DESCRIPTORS— *CONFERENCES, *ELEMENTARY SCHOOLS, *INSTRUCTIONAL TELEVISION, *SCIENCE EDUCATION, *SECONDARY SCHOOLS, TEACHER EDUCATION.

ED 014 908 56
WOODRUFF, ARNOLD BOND SHIMA-BUKURO,
SHINKICHI
STUDIES ON INDIVIDUAL DIFFERENCES RELATED
TO PERFORMANCE ON PROGRAMED INSTRUCTION.
NORTHERN ILLINOIS UNIV., DE KALB
REPORT NUMBER CRP-3129
REPORT NUMBER BR-5-0599
PUB DATE 67
EDRS PRICE MF-\$0.50 HC-\$4.20 82P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT,
*GENERAL SCIENCE, *GRADE 8, *INDIVIDUAL
DIFFERENCES, *PROGRAMED INSTRUCTION,
CREATIVITY, GRADE POINT AVERAGE,
INTELLIGENCE QUOTIENT, PROMPTING, READING
ABILITY, TMI—GROLIER'S COURSE IN GENERAL
SCIENCE.

ED 014 999
SYSTEM PERFORMANCE SPECIFICATION FOR A NA-
TIONAL CHEMICAL INFORMATION SYSTEM.
INFORMATION MANAGEMENT INC., BURLINGTON,
MASS.
PUB DATE APR 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CHEMISTRY, *INFORMATION
PROCESSING, *INFORMATION SYSTEMS, *SYSTEMS
DEVELOPMENT, ADMINISTRATIVE POLICY,
CRITERIA, INFORMATION CENTERS, INFORMATION
NEEDS, NETWORKS, PERFORMANCE, PLANNING.

ED 015 123
TAYLOR, CALVIN W.
THE 1955 UNIVERSITY OF UTAH RESEARCH CON-
FERENCE ON THE IDENTIFICATION OF CREATIVE
SCIENTIFIC TALENT (1ST, BRIGHTON, AUGUST
27—30, 1955.).
UTAH UNIV., SALT LAKE CITY
PUB DATE 56
EDRS PRICE MF-\$1.25 HC-\$13.90 276P.

DESCRIPTORS— *CONFERENCE REPORTS,
*CREATIVITY, *LEARNING THEORIES, *RESEARCH
REVIEWS (PUBLICATIONS), *SCIENCE EDUCATION,
*SCIENTIFIC MANPOWER, ABLE STUDENTS,
COLLEGES, ENGINEERING, INTELLIGENCE,
MENTAL HEALTH, NATIONAL SCIENCE
FOUNDATION, PERSONALITY, PROBLEM SOLVING,
RESEARCHERS, STRONG VOCATIONAL INTEREST
BLANK, STUDENT CHARACTERISTICS, TEACHING
TECHNIQUES, UNIVERSITIES, UNIVERSITY OF
UTAH.

ED 015 124
WINN, MITCHELL AND OTHERS
DRUG ABUSE—ESCAPE TO NOWHERE.
SMITH, KLINE AND FRENCH LABS., PHILADELPHIA,
PA.
REPORT NUMBER 244-07816
AMERICAN ASSN. FOR HEALTH, P.E. AND
RECREATION
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DRUG ADDICTION, *HEALTH
EDUCATION, *NARCOTICS, ADULT EDUCATION,
AMERICAN ASSOCIATION FOR HEALTH,
AUDIOVISUAL AIDS, BIBLIOGRAPHIES, COLLEGE
SCIENCE, ELEMENTARY SCHOOL SCIENCE, FILMS,
HEALTH, INSTRUCTIONAL MATERIALS, NATIONAL
EDUCATION ASSOCIATION, PHYSICAL EDUCATION
AND RECREATION, PUBLIC HEALTH, REFERENCE
MATERIALS, SECONDARY SCHOOL SCIENCE.

ED 015 125
YAHRAES, HERBERT AND OTHERS
NARCOTIC DRUG ADDICTION.
PUBLIC HEALTH SERVICE (DHEW), BETHESDA, MD.
REPORT NUMBER NIMH-MONOGR-2
REPORT NUMBER PHS-PUB-1021
PUB DATE 65
EDRS PRICE MF-\$0.25 HC-\$1.65 31P.

DESCRIPTORS— *DRUG ADDICTION, *HEALTH
EDUCATION, *NARCOTICS, ADULT EDUCATION,
COLLEGE SCIENCE, ELEMENTARY SCHOOL
SCIENCE, HEALTH, MENTAL HEALTH, MENTAL
HEALTH MONOGRAPHS, PUBLIC HEALTH, PUBLIC
HEALTH SERVICE, SECONDARY SCHOOL SCIENCE,
UNITED STATES DEPARTMENT OF HEALTH
EDUCATION AND WELFARE.

ED 015 126
ASHBAUGH, BYRON L.
PLANNING A NATURE CENTER.
NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION,
*EDUCATIONAL FACILITIES, *ELEMENTARY
SCHOOL SCIENCE, *NATURE CENTERS, *OUTDOOR
EDUCATION, *PROGRAM PLANNING, *SECONDARY
SCHOOL SCIENCE, ADULT EDUCATION, BIOLOGY,
COLLEGE SCIENCE, COMMUNITY RESOURCES,
EARTH SCIENCE, EDUCATIONAL OBJECTIVES,
EDUCATIONAL PROGRAMS, NATIONAL AUDUBON
SOCIETY, URBAN EDUCATION.

ED 015 127

REPORT OF THE CONFERENCE ON INTER-DISCIPLINARY ACTIVITIES (SEATTLE, JUNE 28—JULY 2, 1965). COMMISSION ON UNDERGRAD. EDUC. IN BIOLOGICAL SCI.

ADVISORY COUNCIL ON COLLEGE CHEMISTRY
COMMISSION ON COLLEGE PHYSICS, ANN ARBOR, MICH.

PUB DATE 65

EDRS PRICE MF-\$0.25 HC-\$1.65 31P.

DESCRIPTORS— *COLLEGE SCIENCE, *HIGHER EDUCATION, *INSTRUCTION, *UNDERGRADUATE STUDY, AGRICULTURE, BIOLOGY, CHEMISTRY, CONFERENCE ON INTERDISCIPLINARY ACTIVITIES, CONFERENCE REPORTS, CONFERENCES, ENGINEERING, GEOGRAPHY, GEOLOGY, MATHEMATICS, PHYSICS, QUANTUM MECHANICS, RESEARCH, SEATTLE, WASHINGTON.

ED 015 128

BULKELEY, PETER Z.

AUTHENTIC INVOLVEMENT IN INTERDISCIPLINARY DESIGN. PROCEEDINGS OF CONFERENCE ON ENGINEERING DESIGN EDUCATION (3D. CARNEGIE INSTITUTE OF TECHNOLOGY, JULY 12—13, 1965).

COMMISSION ON ENGINEERING EDUC., WASHINGTON, D.C.

PUB DATE 65

EDRS PRICE MF-\$0.50 HC-\$4.60 90P.

DESCRIPTORS— *ENGINEERING EDUCATION, *INSTRUCTION, *TECHNOLOGY, CARNEGIE INSTITUTE OF TECHNOLOGY, CONFERENCE REPORTS, NATIONAL SCIENCE FOUNDATION, WORKSHOPS.

ED 015 131

RASMUSSEN, MARGARET AND OTHERS

SCIENCE FOR THE EIGHTS-TO-TWELVES.

ASSOCIATION FOR CHILDHOOD EDUC. INTERNATIONAL

PUB DATE 64

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM PLANNING, *EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOLSCIENCE, *EVALUATION, *INTERMEDIATE GRADES, *SCIENCE ACTIVITIES, *STUDENT CHARACTERISTICS, *TEACHING METHODS, AUDIOVISUAL AIDS, BIOLOGY, CONCEPT FORMATION, CONSERVATION EDUCATION, EARTH SCIENCE, GENERAL SCIENCE, INSTRUCTION, INSTRUCTIONAL MATERIALS, PHYSICAL SCIENCE, SCIENCE EQUIPMENT, SCIENCE MATERIALS, SCIENTIFIC ATTITUDES, SCIENTIFIC

METHODOLOGY, STUDENT ATTITUDES, STUDENT INTERESTS.

ED 015 132

DUNFEE, MAXINE

ELEMENTARY SCHOOL SCIENCE—A GUIDE TO CURRENT RESEARCH.

ASSOCIATION FOR SUPERVISION AND CURRICULUM DEV.

PUB DATE 67

EDRS PRICE MF-\$0.50 HC NOT AVAILABLE FROM EDRS. 87P.

DESCRIPTORS— *BIBLIOGRAPHIES, *EDUCATIONAL RESEARCH, *ELEMENTARY SCHOOL SCIENCE, *RESEARCH, *SCIENCE EDUCATION, ASSOCIATION FOR SUPERVISION AND CURRICULUM DEVELOPMENT, CONCEPT FORMATION, CURRICULUM, CURRICULUM DEVELOPMENT, DISCOVERY LEARNING, EDUCATIONAL OBJECTIVES, EDUCATIONAL TELEVISION, EVALUATION, INDIVIDUAL DIFFERENCES, INSTRUCTION, INSTRUCTIONAL MATERIALS, INTERESTS, PROGRAMED INSTRUCTION, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE EQUIPMENT, STUDENT INTERESTS, TEACHER EDUCATION, TEXTBOOKS.

ED 015 133

SULLIVAN, JOHN J. TAYLOR, CALVIN W.

LEARNING AND CREATIVITY WITH SPECIAL EMPHASIS ON SCIENCE.

NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.

PUB DATE 67

EDRS PRICE MF-\$0.25 HC NOT AVAILABLE FROM EDRS. 53P.

DESCRIPTORS— *CREATIVITY, *LEARNING THEORIES, *SCIENCE EDUCATION, CREATIVE THINKING, EDUCATIONAL PSYCHOLOGY, INSTRUCTION, NATIONAL EDUCATION ASSOCIATION, NATIONAL SCIENCE TEACHERS ASSOCIATION, QUESTIONING TECHNIQUES, STUDENT CHARACTERISTICS, TALENT DEVELOPMENT, TALENT IDENTIFICATION, TEACHING TECHNIQUES.

ED 015 134

BRANDWEIN, PAUL F.

BUILDING CURRICULAR STRUCTURES FOR SCIENCE WITH SPECIAL REFERENCE TO THE JUNIOR HIGH SCHOOL.

NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.

PUB DATE 67

EDRS PRICE MF-\$0.25 HC NOT AVAILABLE FROM EDRS. 26P.

DESCRIPTORS— *CURRICULUM, *JUNIOR HIGH SCHOOLS, *SECONDARY SCHOOL SCIENCE, CURRICULUM DEVELOPMENT, CURRICULUM PLANNING, NATIONAL EDUCATION ASSOCIATION, NATIONAL SCIENCE TEACHERS ASSOCIATION.

ED 015 135
TURNER, C.E.
PLANNING FOR HEALTH EDUCATION IN SCHOOLS.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULT. ORG.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM GUIDES, *CURRICULUM PLANNING, *EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOL SCIENCE, *HEALTH EDUCATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, COMMUNITY HEALTH SERVICES, EDUCATIONAL NEEDS, EDUCATIONAL PROGRAMS, HEALTH, INSTRUCTION, PUBLIC HEALTH, RURAL EDUCATION, SCIENCE ACTIVITIES, TEACHING METHODS, UNESCO, UNITED NATIONS, URBAN EDUCATION, WORLD HEALTH ORGANIZATION.

ED 015 136
COOMBS, PHILIP H. AND OTHERS
EDUCATIONAL PLANNING—AN INVENTORY OF MAJOR RESEARCH NEEDS.
INTERNATIONAL INST. FOR EDUCATIONAL PLANNING
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONFERENCE REPORTS, *EDUCATIONAL PLANNING, CONFERENCES, EDUCATIONAL FINANCE, EDUCATIONAL NEEDS, EDUCATIONAL RESEARCH, INTERNATIONAL INSTITUTE FOR EDUCATIONAL PLANNING, MANPOWER DEVELOPMENT, PARIS, RESEARCH, SOCIAL SCIENCES, SYSTEMS ANALYSIS, TEACHER SUPPLY AND DEMAND, WOMEN TEACHERS.

ED 015 137
KNOCK, H. E. AND OTHERS
TEACHING SCIENCE AT THE SECONDARY STAGE. A HANDBOOK ON THE TEACHING OF SCIENCE TO THE AVERAGE PUPIL.
ASSOCIATION FOR SCIENCE EDUC., CAMBRIDGE (ENGLAND)
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *CHEMISTRY, *EDUCATIONAL OBJECTIVES, *EVALUATION, *GENERAL EDUCATION, *INSTRUCTION, *PHYSICS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHING METHODS, ASSOCIATION FOR SCIENCE EDUCATION, CURRICULUM PLANNING, ELEMENTARY SCHOOL SCIENCE, ENGLAND, METHODS COURSES, PROGRAMED INSTRUCTION, REFERENCE MATERIALS, SCIENCE EDUCATION, TEXTBOOKS.

ED 015 138
LEE, ADDISON E.
THE DEVELOPMENT OF NEW SUPPLEMENTARY TEACHING MATERIALS AND AN ANALYSIS OF THEIR POTENTIAL USE IN THE HIGH SCHOOL BIOLOGY CURRICULUM. FINAL REPORT.
TEXAS UNIV., AUSTIN
REPORT NUMBER CRP-S-451
REPORT NUMBER BR-5-8449
PUB DATE AUG 66
CONTRACT OEC-6-10-171
EDRS PRICE MF-\$0.25 HC-\$0.50 8P.

DESCRIPTORS— *BIOLOGY, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS, BIOLOGICAL SCIENCES CURRICULUM STUDY, BIOLOGICAL SCIENCES CURRICULUM STUDY COMPREHENSIVE FINAL EXAM, DIFFERENTIAL APTITUDE TESTS, HOUSTON, INQUIRY TRAINING, PROCESSES OF SCIENCE TEST, SCIENCE MATERIALS, TEACHING GUIDES, TEACHING TECHNIQUES, TEXAS, UNITED STATES DEPARTMENT OF HEALTH EDUCATION AND WELFARE.

ED 015 139
PORTER, LAWRENCE C.
DIMENSIONS OF CHANGE IN HIGHER EDUCATION, CONFERENCE ON INNOVATION (3D, BARD COLLEGE, ANNANDALE-ON-HUDSON, NEW YORK, JANUARY 25—28, 1967). CONFERENCE SUMMARY.
UNION FOR RES. AND EXPERIMENTATION IN HIGHER EDUC.
PUB DATE 67
EDRS PRICE MF-\$0.25 HC-\$2.25 43P.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM, *GENERAL EDUCATION, *INSTRUCTION, *SCIENCE EDUCATION, *TEACHING METHODS, BIOLOGY, CHEMISTRY, CONFERENCE REPORTS, CONSERVATION EDUCATION, ECOLOGY, EDUCATIONAL INNOVATION, EDUCATIONAL OBJECTIVES, EDUCATIONAL PROBLEMS, EVAL-

UATION. HIGHER EDUCATION. INDEPENDENT
STUDY. PHYSICS. SCIENTIFIC ENTERPRISE.
STUDENT OPINION. TALENT IDENTIFICATION.
WHITE MEMORIAL FOUNDATION.

ED 015 142

DAVIS, E. E.

ATTITUDE CHANGE. A REVIEW AND
BIBLIOGRAPHY OF SELECTED RESEARCH.

UNITED NATIONS EDUCATIONAL SCIENTIFIC AND
CULT. ORG.

REPORT NUMBER SS-CH-19

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ATTITUDES, *BIBLIOGRAPHIES,
*RESEARCH, COMMUNICATIONS, COMMUNITY
ATTITUDES, CULTURAL FACTORS, CULTURE,
GROUP DYNAMICS, INTERGROUP RELATIONS,
PERSONALITY, RESEARCH METHODOLOGY, SOCIAL
ATTITUDES, SOCIOECONOMIC INFLUENCES.

ED 015 156

ANDERSON, GARY J. WALBERG, HERBERT J.

CLASSROOM CLIMATE AND GROUP LEARNING.

PUB DATE 67

EDRS PRICE MF-\$0.25 HC-\$0.80 14P.

DESCRIPTORS— *ATTITUDES, *LEARNING,
*PHYSICS TEACHERS, *STUDENT TEACHER
RELATIONSHIP, ACHIEVEMENT, ACHIEVEMENT
TESTS, BIBLIOGRAPHIES, CLASSROOM CLIMATE
QUESTIONNAIRE, CLASSROOM ENVIRONMENT,
INTELLIGENCE, PERMISSIVE ENVIRONMENT,
PHYSICS, PHYSICS ACHIEVEMENT TEST, SECOND-
ARY EDUCATION SOCIAL CLASS, SEMANTIC DIFFER-
ENTIAL FOR SCIENCE STUDENTS, STUDENT ATTITUDES,
TEACHER ATTITUDES, TEST ON UNDER-
STANDING SCIENCE.

ED 015 294

AUSMUS, NORMA F. AND OTHERS

THE CURRENT EMPLOYMENT MARKET FOR ENGI-
NEERS, SCIENTISTS, AND TECHNICIANS,
DECEMBER 1966.

BUREAU OF EMPLOYMENT SECURITY (DEPT. OF
LABOR)

PUB DATE DEC 66

EDRS PRICE MF-\$0.25 HC-\$2.40 46P.

DESCRIPTORS— *DRAFTSMEN, *ENGINEERS,
*LABOR MARKET, *SCIENTISTS,
*SUBPROFESSIONALS, EMPLOYMENT

OPPORTUNITIES, EMPLOYMENT SERVICES,
EMPLOYMENT TRENDS, GEOGRAPHIC
DISTRIBUTION, JOB SEEKERS, OCCUPATIONAL
SURVEYS.

ED 015 295

AUSMUS, NORMA F. SAILE, ALVIN W.

THE CURRENT EMPLOYMENT MARKET FOR ENGI-
NEERS, SCIENTISTS, AND TECHNICIANS, OCTOBER
1965.

BUREAU OF EMPLOYMENT SECURITY (DEPT. OF
LABOR).

PUB DATE OCT 65

EDRS PRICE MF-\$0.25 HC-\$1.70 32P.

DESCRIPTORS— *DRAFTSMEN, *ENGINEERS,
*LABOR MARKET, *SCIENTISTS, *SUBPRO-
FESSIONALS, BUREAU OF EMPLOYMENT
SECURITY, EMPLOYMENT OPPORTUNITIES,
EMPLOYMENT SERVICES, EMPLOYMENT TRENDS,
GEOGRAPHIC DISTRIBUTION, JOB SEEKERS,
OCCUPATIONAL SURVEYS.

ED 015 324

NORGREN, PAUL H. WARNER, AARON W.

OBSOLESCENCE AND UPDATING OF ENGINEERS'
AND SCIENTISTS' SKILLS. FINAL REVISED REPORT.

PUB DATE NOV 66

EDRS PRICE MF-\$0.75 HC-\$8.30 164P.

DESCRIPTORS— *ENGINEERS, *IMPROVEMENT,
*JOB SKILLS, *SCIENTISTS, *TECHNOLOGICAL
ADVANCEMENT, PROFESSIONAL TRAINING,
RESEARCH NEEDS, RETRAINING, VOCATIONAL
ADJUSTMENT.

ED 015 719

KALLAN, LEO E. MOONEY, WILLIAM T., JR.

A PROJECT TO IMPROVE LEARNING IN CHEMISTRY
AT EL CAMINO COLLEGE BY INTRODUCING CHEM.
STUDY FILMS IN THE EIGHT MILLIMETER
CARTRIDGE FORM FOR OUT-OF-CLASS USE BY
STUDENTS.

EL CAMINO COLL., EL CAMINO COLLEGE, CALIF.

PUB DATE 1 SEP 65

EDRS PRICE MF-\$0.25 HC-\$1.50 28P.

DESCRIPTORS— *CHEMISTRY INSTRUCTION,
*JUNIOR COLLEGES, *SINGLE CONCEPT FILMS,
*STUDY GUIDES, AUTOINSTRUCTIONAL PROGRAMS,
CALIFORNIA, EL CAMINO COLLEGE, INDEPENDENT
STUDY, INSTRUCTIONAL FILMS, SCIENCE TESTS,
SOUND FILMS.

ED 015 733
HAWORTH, LELAND J.
THE JUNIOR COLLEGE AND EDUCATION IN THE SCIENCES, THIRD REPORT IN A SERIES PREPARED FOR THE SUBCOMMITTEE ON SCIENCE, RESEARCH, AND DEVELOPMENT OF THE COMMITTEE ON SCIENCE AND ASTRONAUTICS OF THE U.S. HOUSE OF REPRESENTATIVES (TITLE SUPPLIED).
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

PUB DATE 67
EDRS PRICE MF-\$0.50 HC-\$5.65 111P.

DESCRIPTORS— *HIGHER EDUCATION, *JUNIOR COLLEGES, *SCIENCE EDUCATION, *SCIENTISTS, *TEACHER QUALIFICATIONS, COLLEGE SCIENCE, INSTRUCTIONAL STAFF, SCIENCE TEACHERS, TEACHER RECRUITMENT.

ED 015 741
RICARD, JACK
A TOOL FOR INDEPENDENT STUDY IN BIOLOGY.
OREGON STATE UNIV., CORVALLIS

PUB DATE 65
EDRS PRICE MF-\$0.25 HC-\$0.25 3P.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *INDEPENDENT STUDY, *JUNIOR COLLEGES, *RECORDS (FORMS), *SCIENCE PROJECTS, CALIFORNIA, COLLEGE SCIENCE, PLANNING, SACRAMENTO, SCIENCE EXPERIMENTS, SCIENCE INSTRUCTION.

ED 015 866
JAMES, MELBA AND OTHERS
BIOLOGY, A GUIDE FOR TEACHERS.
MISSOURI STATE DEPT. OF EDUCATION,
JEFFERSON CITY
REPORT NUMBER PUB-131G
PUB DATE 66
EDRS PRICE MF-\$0.50 HC-\$6.45 127P.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *BIOLOGY, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, GRADE 10, GRADE 12, GRADE 7, TEACHING GUIDES.

ED 015 867
TWEETEN, PAUL W.
PHYSICS FOR IOWA SCHOOLS.
IOWA STATE DEPT. OF PUBLIC INSTR., DES MOINES
PUB DATE 66
EDRS PRICE MF-\$0.50 HC-\$5.90 116P.

DESCRIPTORS— *COURSE CONTENT, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, AUDIOVISUAL AIDS, MATHEMATICS, PROBLEM SOLVING, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE EQUIPMENT.

ED 015 868
HOLMAN, JAN L.
GUIDELINES FOR THE DEVELOPMENT OF ELEMENTARY SCIENCE CURRICULUM K-6.
KANSAS STATE DEPT. OF PUBLIC INSTR., TOPEKA.
PUB DATE 66
EDRS PRICE MF-\$0.25 HC-\$1.55 29P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *TEACHING GUIDES, AUDIOVISUAL AIDS, CORE CURRICULUM, EDUCATIONAL OBJECTIVES, KANSAS, LABORATORY SAFETY, SCIENCE EQUIPMENT, SCIENCE FACILITIES.

ED 015 869
BROWN, ROBERT E. MOUSER, G. W.
TECHNIQUES FOR TEACHING CONSERVATION EDUCATION.
MICHIGAN ST. UNIV., EAST LANSING
PUB DATE 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, ELEMENTARY SCHOOL SCIENCE, FIELD TRIPS, OUTDOOR EDUCATION, TEACHING METHODS.

ED 015 870
TIMMONS, KAREN S.
TEACHERS' GUIDES, AEROSPACE SCIENCE, GRADES K-6.
LINCOLN PUBLIC SCHOOLS, NEBR.
PUB DATE 66
EDRS PRICE MF-\$0.50 HC-\$4.70 92P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, *TEACHING GUIDES, BIBLIOGRAPHIES, CONCEPT FORMATION, EARTH SCIENCE, PHYSICAL SCIENCES.

ED 015 871
GUIDELINES TO CONSERVATION EDUCATION ACTION.
NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION, *HUMAN RESOURCES, *NATURAL RESOURCES, *TEACHER EDUCATION, ADULT EDUCATION, ATTITUDES, BIBLIOGRAPHIES, BIOLOGY, CONSERVATION EDUCATION ASSOCIATION, EARTH SCIENCE, ELEMENTARY SCHOOL SCIENCE, NATIONAL AUDUBON SOCIETY, SECONDARY SCHOOL SCIENCE, THE IZAAK WALTON LEAGUE OF AMERICA.

ED 015 875

MATTFELD, JACQUELYN A. VAN AKEN, CAROL G. WOMEN AND THE SCIENTIFIC PROFESSIONS, THE M.I.T. SYMPOSIUM ON AMERICAN WOMEN IN SCIENCE AND ENGINEERING.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ENGINEERING, *FEMALES, *PROFESSIONAL OCCUPATIONS, *SCIENCE CAREERS, *SCIENCES, *SCIENTIFIC MANPOWER, CAREER OPPORTUNITIES, CONFERENCE REPORTS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, SOCIAL SCIENCES.

ED 015 876

NELSON, CLARENCE H.

TESTING AND EVALUATION IN THE BIOLOGICAL SCIENCES.

COMMISSION ON UNDERGRAD. EDUC. IN BIOLOGICAL SCI.

PUB DATE NOV 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT TESTS, *BIOLOGY, *COLLEGE SCIENCE, *EVALUATION, *OBJECTIVE TESTS, *TESTING, BLOOM'S TAXONOMY OF EDUCATIONAL OBJECTIVES, COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES (CUEBS), ECOLOGY, ESSAY TESTS, INSTRUCTION, SECONDARY SCHOOL SCIENCE, TEST CONSTRUCTION.

ED 016 482

MAFFETT, JAMES E.

INSTRUCTIONAL PERFORMANCE OBJECTIVES FOR A COURSE IN GENERAL BIOLOGY.

MANATEE JUNIOR COLL., BRADENTON, FLA.

EDRS PRICE MF-\$0.25 HC-\$1.90 36P.

DESCRIPTORS— *BEHAVIORAL OBJECTIVES, *BIOLOGICAL SCIENCES, *BIOLOGY INSTRUCTION, *COURSE OBJECTIVES, *EDUCATIONAL

OBJECTIVES, *JUNIOR COLLEGES, BIOLOGY, BRADENTON, COURSE CONTENT, FLORIDA.

ED 016 604

WHEELER, HUBERT

EARTH SCIENCE, A GUIDE FOR TEACHERS.

MISSOURI STATE DEPT OF EDUCATION, JEFFERSON CITY.

REPORT NUMBER PUB-130G.

PUB DATE 66

EDRS PRICE MF-\$0.50 HC-\$3.85 75P.

DESCRIPTORS— *COURSE CONTENT, *EARTH SCIENCE, BIOLOGICAL SCIENCES CURRICULUM STUDY, CHEMICAL BOND APPROACH, CHEMICAL EDUCATION MATERIALS STUDY, CURRICULUM DEVELOPMENT, CURRICULUM GUIDES, EARTH SCIENCE CURRICULUM PROJECT, GRADE 8, JEFFERSON CITY, MISSOURI, SECONDARY SCHOOL SCIENCE, TEACHING METHODS, TEACHING TECHNIQUES.

ED 016 606

SHOMON, JOSEPH J.

MANUAL OF OUTDOOR CONSERVATION EDUCATION.

NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.

PUB DATE 64

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION, *EDUCATIONAL FACILITIES, *EDUCATIONAL OBJECTIVES, *OUTDOOR EDUCATION, *SCIENCE FACILITIES, *TEACHING PROCEDURES, ADULT EDUCATION, BIOLOGY, COLLEGE SCIENCE, CURRICULUM PLANNING, EARTH SCIENCE, ECOLOGY, EDUCATIONAL PROGRAMS, ELEMENTARY SCHOOL SCIENCE, INSTRUCTION, NATURE CENTERS, SECONDARY SCHOOL SCIENCE.

ED 016 607

ASHBAUGH, BYRON L.

TRAIL PLANNING AND LAYOUT.

NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EDUCATIONAL FACILITIES, *OUTDOOR EDUCATION, *SCIENCE FACILITIES, ADULT EDUCATION, COLLEGE SCIENCE, CONSERVATION EDUCATION, INSTRUCTION, NATURE CENTERS, SECONDARY SCHOOL SCIENCE.

ED 016 608 56
GORDON, JOHN M.
THE EFFECTIVENESS OF FOUR VARIATIONS OF
PROGRAMED SCIENCE MATERIALS.
MICHIGAN ST. UNIV., EAST LANSING.
REPORT NUMBER BR-5-0747
PUB DATE 67
GRANT OEG-7-32-0410-256
EDRS PRICE MF-\$0.25 HC-\$2.10 40P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT,
*AUDIOVISUAL AIDS, *GRADE 7, *INSTRUCTION,
*PROGRAMED INSTRUCTION, *SECONDARY
SCHOOL SCIENCE, COGNITIVE DEVELOPMENT,
ELECTRICITY, LANSING, MICHIGAN, NATIONAL
DEFENSE EDUCATION ACT, PHYSICAL SCIENCES,
TITLE 7, (NDEA), UNITED STATES OFFICE OF
EDUCATION, WEST JUNIOR HIGH SCHOOL.

ED 016 619
LAMIE, RICHARD G.
A FORMAL COURSE IN OCEANOGRAPHY AT THE
SECONDARY SCHOOL LEVEL THROUGH
INDEPENDENT STUDY, SUMMARY REPORT AND
FINAL REPORT.
VALHALLA UNION FREE SCHOOL DISTRICT NO. 5,
N.Y.
REPORT NUMBER BR6-8297
PUB DATE 67
CONTRACT OEC-1-6-068297-1734
EDRS PRICE MF-\$0.25 HC-\$1.90 36P.

DESCRIPTORS— *COURSE CONTENT, *COURSE DE-
SCRIPTIONS, *CURRICULUM DEVELOPMENT, *INDE-
PENDENT STUDY, *OCEANOLOGY, *REFERENCE
MATERIALS, *SECONDARY SCHOOL SCIENCE,
BIBLIOGRAPHIES, BIOLOGY, COURSE
ORGANIZATION, CURRICULUM DEVELOPMENT,
INSTRUCTION, INSTRUCTIONAL MATERIALS,
TEACHING METHODS, TEACHING PROCEDURES.

ED 016 620 24
MARKS, RONALD L.
DIFFERENCES IN LEARNING OUTCOMES BETWEEN
A NEW AND A TRADITIONAL CHEMISTRY COURSE.
INDIANA STATE COLL., PA.
REPORT NUMBER BR-5-8026
REPORT NUMBER CRP-S-317
PUB DATE OCT 66
EDRS PRICE MF-\$0.25 HC-\$1.15 21P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT,
*CHEMISTRY, *COGNITIVE PROCESSES, *CRITICAL
THINKING, *SECONDARY SCHOOL SCIENCE, *TEST

CONSTRUCTION, ACHIEVEMENT TESTS, CHEMICAL
BOND APPROACH, COGNITIVE ABILITY,
EVALUATION, INDIANA STATE COLLEGE,
LEARNING, PENNSYLVANIA, STUDENT
CHARACTERISTICS, TESTS.

ED 016 621
CARTTER, ALLAN M.
AN ASSESSMENT OF QUALITY IN GRADUATE EDU-
CATION.
AMERICAN COUNCIL ON EDUCATION, WASHINGTON,
D. C.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGICAL SCIENCES,
*EDUCATIONAL PROGRAMS, *ENGINEERING,
*EVALUATION, *GRADUATE STUDY, *HIGHER
EDUCATION, *HUMANITIES, *PHYSICAL SCIENCES,
*SOCIAL SCIENCES, AMERICAN COUNCIL ON
EDUCATION, COLLEGE TEACHERS, COMMISSION
ON PLANS FOR HIGHER EDUCATION.

ED 016 627
FROSCHE, ROBERT A.
UNIVERSITY CURRICULA IN THE MARINE
SCIENCES.
INTERAGENCY COMMITTEE ON OCEANOGRAPHY,
WASHINGTON, D.C.
REPORT NUMBER ICO-PAM-30
PUB DATE AUG 67
EDRS PRICE MF-\$0.75 HC-\$8.40 166P.

DESCRIPTORS— *CAREER PLANNING,
*CURRICULUM, *EDUCATIONAL PROGRAMS,
*OCEANOLOGY, CAREERS, COLLEGE SCIENCE,
NATIONAL COUNCIL OF MARINE RESOURCES AND
ENGINEERING DEVELOPMENT.

ED 016 629
CHRISTIAN, FLOYD T.
ALCOHOL...NARCOTICS EDUCATION, A HANDBOOK
FOR TEACHERS.
FLORIDA ST. DEPT. OF EDUCATION, TALLAHASSEE
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ALCOHOLISM, *CURRICULUM,
*DRUG ADDICTION, *EDUCATIONAL OBJECTIVES,
*HEALTH EDUCATION, *SECONDARY SCHOOL
SCIENCE, *TEACHER GUIDES, ELEMENTARY
SCHOOL SCIENCE, FLORIDA, INSERVICE
EDUCATION, STATE DEPARTMENT OF EDUCATION,
STUDENT ACTIVITIES.

ED 016 630
KITZINGER, ANGELA HILL, PATRICIA J.
DRUG ABUSE, A SOURCE BOOK AND GUIDE FOR
TEACHERS.
CALIFORNIA STATE DEPT. OF EDUCATION, SACRA-
MENTO
PUB DATE 67
EDRS PRICE MF-\$0.75 HC-\$6.95 137P.

DESCRIPTORS— *CURRICULUM, *DRUG
ADDICTION, *DRUG LEGISLATION, *HEALTH
EDUCATION, *INSTRUCTION, *TEACHING GUIDES,
CALIFORNIA, CURRICULUM PLANNING,
ELEMENTARY SCHOOL SCIENCE, SECONDARY
SCHOOL SCIENCE.

ED 016 631
CASSEL, RICHARD
BASIC ELECTRICITY. SCIENCE IN ACTION SERIES.
NUMBER 14.
PENNSYLVANIA STATE DEPT. OF PUBLIC
INSTRUCTION
PUB DATE 67
EDRS PRICE MF-\$0.25 HC-\$1.30 24P.

DESCRIPTORS— *ELECTRICITY, *ELEMENTARY
SCHOOL SCIENCE, *INSTRUCTION, *SCIENCE
ACTIVITIES, *SECONDARY SCHOOL SCIENCE,
*TEACHING GUIDES, INVESTIGATIONS.

ED 016 636
O'CONNOR, ROD SLABAUGH, WENDELL
TEACHER-PRODUCED INSTRUCTIONAL FILMS IN
CHEMISTRY, 8MM AND SUPER 8.
ADVISORY COUNCIL ON COLL. CHEMISTRY.
PUB DATE DEC 67
EDRS PRICE MF-\$0.25 HC-\$2.00 38P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *CHEMISTRY,
*COLLEGE SCIENCE, *FILM PRODUCTION, *FILMS,
INSTRUCTIONAL FILMS, *SCIENCE MATERIALS.

ED 016 813
BARLOW, MELVIN L. SCHILL, WILLIAM J.
THE ROLE OF THE PHYSICAL SCIENCES IN
ELECTRICAL-ELECTRONIC TECHNOLOGY.
PROGRESS REPORT.
CALIFORNIA UNIV., LOS ANGELES.
CALIFORNIA STATE DEPT. OF EDUCATION, SACRA-
MENTO.
PUB DATE 65
EDRS PRICE MF-\$0.50 HC-\$3.65 71P.

DESCRIPTORS— *CURRICULUM PLANNING,
*EDUCATIONAL NEEDS, *ELECTRONIC
TECHNICIANS, *PHYSICAL SCIENCES, *SCIENTIFIC
PRINCIPLES, CHEMISTRY, ELECTRICITY,
ELECTRONICS, JOB SKILLS, PHYSICS, TECHNICAL
EDUCATION.

ED 017 004 24
FOREHAND, GARLIE A.
INDIVIDUAL DIFFERENCES IN PROBLEM SOLVING
PROCESSES OF COLLEGE STUDENTS.
CARNEGIE-MELLON UNIV., PITTSBURGH, PA.
REPORT NUMBER BR-5-0908
REPORT NUMBER CRP-3151
PUB DATE 67
CONTRACT OEC-6-10-162
EDRS PRICE MF-\$0.50 HC-\$4.70 92P.

DESCRIPTORS— *ABILITY IDENTIFICATION, *MEAS-
UREMENT TECHNIQUES, *PROBLEM SOLVING, *SCI-
ENTIFIC METHODOLOGY, *THOUGHT PROCESSES,
COLLEGE STUDENTS, DECISION MAKING,
PROBLEM SETS, RESEARCH PROJECTS.

ED 017 144
SHAW, ARCHIBALD
THE COLLEGE AND UNIVERSITY SCIENCE CENTER.
REPORT FROM A WORKSHOP SPONSORED BY
EDUCATIONAL EXECUTIVE'S OVERVIEW
MAGAZINE AND PERKINS AND WILL, ARCHITECTS.
NEW YORK CITY, OCTOBER 26, 1961.
PERKINS AND WILL, ARCHITECTS, CHICAGO, ILL.
PUB DATE OCT 61
EDRS PRICE MF-\$0.25 HC-\$2.50 48P.

DESCRIPTORS— *COLLEGE BUILDINGS, *DESIGN
NEEDS, *FLEXIBLE FACILITIES, *SCIENCE
FACILITIES, *SPATIAL RELATIONSHIP, BIOLOGY,
CHEMISTRY, MATHEMATICS, PHYSICS, SCIENCE
EDUCATION, SCIENCE LABORATORIES, SCIENTI-
FIC RESEARCH, WORKSHOPS.

ED 017 314
CREAGER, WILLIAM A. SPARKS, DAVID E.
A SERIALS DATA PROGRAM FOR SCIENCE AND
TECHNOLOGY, RESULTS OF A FEASIBILITY STUDY.
FINAL REPORT.
INFORMATION DYNAMICS CORP., READING, MASS.
REPORT NUMBER IDC-8521
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INFORMATION PROCESSING, *SCIENCES, *SERIALS, *TECHNOLOGY, AUTOMATION, BIBLIOGRAPHIES, CATALOGING, COSTS, DOCUMENTATION, FEASIBILITY STUDIES, INFORMATION RETRIEVAL, INFORMATION SYSTEMS, INTERAGENCY COOPERATION, LIBRARIES, PLANNING, SYSTEMS ANALYSIS.

ED 017 440

WHEELER, HUBERT

CHEMISTRY, A GUIDE FOR TEACHERS.

MISSOURI STATE DEPT. OF EDUCATION,
JEFFERSON CITY.

REPORT NUMBER 129G

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CHEMISTRY, *COURSE CONTENT, CHEMICAL BOND APPROACH, CHEMICAL EDUCATION MATERIALS STUDY, CURRICULUM DEVELOPMENT, CURRICULUM GUIDES, NATIONAL DEFENSE EDUCATION ACT, SECONDARY SCHOOL SCIENCE, TEACHING GUIDES, TEACHING METHODS, TEACHING TECHNIQUES.

ED 017 441

TAYLOR, MRS. JAMES L.

SCIENCE IN THE ELEMENTARY SCHOOL, GRADE 3,
A GUIDE FOR TEACHERS.

TUPELO PUBLIC SCHOOLS, MISS.

PUB DATE 65

EDRS PRICE MF-\$0.50 HC-\$5.85 115P.

DESCRIPTORS— *BIOLOGY, *COURSE OBJECTIVES, *CURRICULUM DEVELOPMENT, *EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 3, *INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, *TEACHING GUIDES, AUDIOVISUAL AIDS, EARTH SCIENCE, ECOLOGY, EDUCATIONAL PROGRAMS, FILMS, FILMSTRIPS, MISSISSIPPI, ZOOLOGY.

ED 017 442

TAYLOR, MRS. JAMES L.

SCIENCE IN THE ELEMENTARY SCHOOL, GRADE 4,
A GUIDE FOR TEACHERS.

TUPELO PUBLIC SCHOOLS, MISS.

PUB DATE 65

EDRS PRICE MF-\$0.50 HC-\$5.30 104P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *COURSE OBJECTIVES, *CURRICULUM DEVELOPMENT, *EARTH SCIENCE, *EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 4, *INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, *TEACHING GUIDES, ECOLOGY, EDUCATIONAL PROGRAMS, FILMS, FILMSTRIPS, MISSISSIPPI, ZOOLOGY.

ED 017 443

TAYLOR, MRS. JAMES L.

SCIENCE IN THE ELEMENTARY SCHOOL, GRADE 5,
A GUIDE FOR TEACHERS.

TUPELO PUBLIC SCHOOLS, MISS.

PUB DATE 65

EDRS PRICE MF-\$0.50 HC-\$5.90 116P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *COURSE OBJECTIVES, *CURRICULUM DEVELOPMENT, *EARTH SCIENCE, *EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 5, *INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, *TEACHING GUIDES, ECOLOGY, EDUCATIONAL PROGRAMS, FILMS, FILMSTRIPS, MISSISSIPPI, ZOOLOGY.

ED 017 444

TAYLOR, MRS. JAMES L.

SCIENCE IN THE ELEMENTARY SCHOOLS, GRADE 6,
A GUIDE FOR TEACHERS.

TUPELO PUBLIC SCHOOLS, MISS.

PUB DATE 65

EDRS PRICE MF-\$0.75 HC-\$6.70 132P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *COURSE OBJECTIVES, *CURRICULUM DEVELOPMENT, *EARTH SCIENCE, *EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 6, *INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, *TEACHING GUIDES, ECOLOGY, EDUCATIONAL PROGRAMS, FILMS, FILMSTRIPS, MISSISSIPPI, ZOOLOGY.

ED 017 445

COCKRELL, LLOYD

OUTDOOR EDUCATION CENTER, PLANNING
PROJECT REPORT.

ALBUQUERQUE PUBLIC SCHOOLS, NEW MEXICO

PUB DATE 66

GRANT OEG-4-6-000884-07878

EDRS PRICE MF-\$0.50 HC-\$3.40 66P.

DESCRIPTORS— *CONSERVATION EDUCATION, *CURRICULUM DEVELOPMENT, *EDUCATIONAL PLANNING, *OUTDOOR EDUCATION, *PROGRAM DESCRIPTIONS, *PROGRAM PLANNING, ART, BIOLOGY, EARTH SCIENCE, EDUCATIONAL FACILITIES, ELEMENTARY SCHOOL SCIENCE, INSTRUCTIONAL MATERIALS, LANGUAGE ARTS, MATHEMATICS, MUSIC, PHYSICAL EDUCATION, SCIENCE EDUCATION, SCIENCE EQUIPMENT, SECONDARY SCHOOL SCIENCE, SOCIAL SCIENCES.

ED 017 446

TEST BOOKLET FOR HIGH SCHOOL BIOLOGY, EXPERIMENTAL MATERIALS FOR USE 1966—1968. BIOLOGICAL SCIENCES CURRICULUM STUDY, BOULDER, COLO.

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, *TEST CONSTRUCTION, BIOLOGICAL SCIENCES CURRICULUM STUDY, GREEN VERSION, MULTIPLE CHOICE TESTS, SCIENCE COURSE IMPROVEMENT PROJECT, TESTS.

ED 017 447

KARPLUS, ROBERT THIER, HERBERT D. A NEW LOOK AT ELEMENTARY SCHOOL SCIENCE, NEW TRENDS IN CURRICULUM AND INSTRUCTION SERIES. CALIFORNIA UNIV., BERKELEY, SCI. CURRIC. IMPR. STUDY.

PUB DATE JAN 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *PROGRAM DESCRIPTIONS, *SCIENCE COURSE IMPROVEMENT PROJECT, *SCIENCE EDUCATION, BIBLIOGRAPHIES, CALIFORNIA, COGNITIVE DEVELOPMENT, EDUCATIONAL OBJECTIVES, INSTRUCTIONAL MATERIALS, LEARNING, SCIENCE CURRICULUM IMPROVEMENT STUDY, TEACHER ROLE, TEACHING METHODS, UNIVERSITY OF CALIFORNIA.

ED 017 448

GOLDSMITH, J. LYMAN INSTRUCTIONAL GUIDE FOR ELECTRICITY, JUNIOR HIGH SCHOOL INDUSTRIAL ARTS. LOS ANGELES CITY SCHOOLS, CALIF. REPORT NUMBER SC-627

PUB DATE 67

PRICE MF-\$0.50 HC-\$4.35 85P.

DESCRIPTORS— *ELECTRICITY, *INDUSTRIAL ARTS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, CALIFORNIA, LOS ANGELES CITY SCHOOLS, SAFETY, TEACHING TECHNIQUES.

ED 017 449

WARREN, J. W.

THE TEACHING OF PHYSICS.

BRUNEL COLL., LONDON (ENGLAND)

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INSTRUCTION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, ENGLAND, GENERAL CERTIFICATE OF EDUCATION (G.C.E.), SCIENTIFIC CONCEPTS, TEXTBOOKS.

ED 017 450

HARBECK, MARY BLATT

A SOURCEBOOK FOR SCIENCE SUPERVISORS.

NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.

PUB DATE 67

EDRS PRICE MF-\$0.75 HC NOT AVAILABLE FROM EDRS 144P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *SECONDARY SCHOOL SCIENCE, *SUPERVISION, *SUPERVISOR QUALIFICATIONS, *SUPERVISORY METHODS, COMMUNITY RESOURCES, CURRICULUM DEVELOPMENT, CURRICULUM PLANNING, FEDERAL PROGRAMS, NATIONAL EDUCATION ASSOCIATION, NATIONAL SCIENCE SUPERVISORS ASSOCIATION, NATIONAL SCIENCE TEACHERS ASSOCIATION, PROFESSIONAL ASSOCIATIONS, SCIENCE SUPERVISION, UNITED STATES OFFICE OF EDUCATION.

ED 017 455

HAYDEN, JESS AND OTHERS

ANIMATED SERIAL SECTIONS, A TEACHING AID FOR ORAL HISTOLOGY AND EMBRYOLOGY.

LOMA LINDA UNIV., CALIF.

REPORT NUMBER BR-5-0898

PUB DATE 66

GRANT OEG-7-14-0340-275

EDRS PRICE MF-\$0.25 HC-\$1.05 19P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *COLLEGE SCIENCE, *FILMS, ANATOMY, HEALTH OCCUPATIONS, HIGHER EDUCATION, INSTRUCTIONAL AIDS, LOMA LINDA UNIVERSITY, PROFESSIONAL EDUCATION, TEACHING TECHNIQUES.

ED 017 456

MARSHALL, J. STANLEY BURKMAN, ERNEST
CURRENT TRENDS IN SCIENCE EDUCATION.
CENTER FOR APPLIED RESEARCH IN EDUC., INC.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *CHEMISTRY,
*CURRICULUM DEVELOPMENT, *EARTH SCIENCE,
*INSTRUCTION, *PHYSICS, *SCIENCE EDUCATION,
*SECONDARY SCHOOL SCIENCE, *TEACHER
EDUCATION, BIOLOGICAL SCIENCES CURRICULUM
STUDY, CHEMICAL BOND APPROACH, COMPUTER
ASSISTED INSTRUCTION, CONVENTIONAL
INSTRUCTION, EDUCATIONAL OBJECTIVES,
EDUCATIONAL PROBLEMS, INSERVICE EDUCA-
TION, NATIONAL SCIENCE FOUNDATION, PHYSICAL
SCIENCE STUDY COMMITTEE, UNDERGRADUATE
STUDY.

ED 017 466

VANCOTT, HAROLD P. KINKADE, ROBERT G.
A FEASIBILITY STUDY FOR DETERMINING
REQUIREMENTS OF BIOLOGICAL INFORMATION
SERVICES AND SYSTEMS.
NATIONAL SCIENCE FOUNDATION, WASHINGTON,
D.C.
REPORT NUMBER NSF-C-492
PUB DATE NOV 67
EDRS PRICE MF-\$0.25 HC-\$1.10 20P.

DESCRIPTORS— *INFORMATION CENTERS,
*INFORMATION NEEDS, *INFORMATION SYSTEMS,
AMERICAN INSTITUTES FOR RESEARCH, BIOLOGY,
COLLEGE SCIENCE, INFORMATION STORAGE,
SCIENCE INFORMATION SERVICE, SCIENTISTS,
SECONDARY SCHOOL SCIENCE.

ED 017 467

NELSON, CLARENCE H.
IMPROVING OBJECTIVE TESTS IN SCIENCE.
NATIONAL SCIENCE TEACHERS ASSN.,
WASHINGTON, D.C.
PUB DATE 67
EDRS PRICE MF-\$0.25 HC NOT
AVAILABLE FROM EDRS. 27P.

DESCRIPTORS— *EVALUATION, *TEST
CONSTRUCTION, *TESTING, ACHIEVEMENT TESTS,
COLLEGE SCIENCE, EDUCATIONAL OBJECTIVES,
ELEMENTARY SCHOOL SCIENCE, NATIONAL
SCIENCE TEACHERS ASSOCIATION, OBJECTIVE
TESTS, PROBLEM SOLVING, SECONDARY SCHOOL
SCIENCE.

ED 017 468

HOPMAN, ANNE B.
HELPING CHILDREN LEARN SCIENCE, A
SELECTION OF ARTICLES REPRINTED FROM
SCIENCE AND CHILDREN.
NATIONAL SCIENCE TEACHERS ASSN.,
WASHINGTON, D.C.
PUB DATE 66
EDRS PRICE MF-\$0.75 HC NOT
AVAILABLE FROM EDRS. 195P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM
DEVELOPMENT, *EDUCATIONAL OBJECTIVES,
*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL
MATERIALS, *RESOURCE MATERIALS, *SCIENCE
ACTIVITIES, *SCIENCE EDUCATION, *SCIENCE
EQUIPMENT, ASTRONOMY, BIOLOGY, CHEMISTRY,
CONCEPT FORMATION, CONSERVATION
EDUCATION, DISADVANTAGED YOUTH, EDU-
CATIONAL PROGRAMS, FIELD TRIPS, GEOLOGY,
LEARNING, OCEANOLOGY, OUTDOOR EDUCATION,
PROBLEM SOLVING, SCIENCE COURSE
IMPROVEMENT PROJECT, SCIENCE FAIRS.

ED 017 469

BINGHAM, N.E. AND OTHERS
HANDBOOK, TEACHING SCIENCE TO
EDUCATIONALLY DISADVANTAGED YOUTH.
SOUTHEASTERN EDUC. LABORATORY, ATLANTA,
GA.
PUB DATE 30 JAN 68
EDRS PRICE MF-\$0.75 HC-\$9.50 188P.

DESCRIPTORS— *DISADVANTAGED YOUTH,
*GRADE 7, *GRADE 8, *GRADE 9, *INSTRUCTION,
*RESOURCE MATERIALS, *SCIENCE ACTIVITIES,
*SCIENCE EDUCATION, *TEACHING GUIDES,
BIOLOGY, FLORIDA, GUIDELINES, INSTRUCTIONAL
MATERIALS, JACKSONVILLE, PHYSICAL SCIENCES,
SECONDARY SCHOOL SCIENCE, SOUTHEASTERN
EDUCATIONAL LABORATORY, STUDENT
CHARACTERISTICS.

ED 017 470

LEFLER, RALPH W. AND OTHERS
GUIDELINES FOR CONTENT OF PRE-SERVICE PRO-
FESSIONAL EDUCATION FOR SECONDARY SCHOOL
SCIENCE TEACHERS.
AMERICAN ASSN. FOR THE ADVANCEMENT OF
SCIENCE
NATIONAL SCIENCE TEACHERS ASSN.,
WASHINGTON, D.C.
PUB DATE DEC 67
EDRS PRICE MF-\$0.25 HC-\$1.35 25P.

DESCRIPTORS— *PRESERVICE EDUCATION, *PROFESSIONAL EDUCATION, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, GUIDELINES, TEACHER ROLE.

ED 017 471

ASSOCIATION FOR THE EDUCATION OF TEACHERS OF SCIENCE, COMPILATION OF PAPERS AND REPORTS FROM SESSIONS HELD IN CONJUNCTION WITH THE CONVENTION OF THE NATIONAL SCIENCE TEACHERS ASSOCIATION, (NEW YORK CITY, APRIL 1, 2, 1966).

NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.

PUBDATE 66

EDRS PRICE MF-\$0.25 HC-\$2.75 53P.

DESCRIPTORS— *DOCTORAL PROGRAMS, *INSTRUCTION, *METHODS COURSES, *PROFESSIONAL EDUCATION, *SCIENCE EDUCATION, *TEACHER CERTIFICATION, *TEACHER EDUCATION, BOTANY, COLLEGE SCIENCE, CULTURALLY DISADVANTAGED, EDUCATIONAL RESEARCH, ELEMENTARY SCHOOL SCIENCE, GRADUATE STUDY, INDIVIDUAL INSTRUCTION, JUNIOR COLLEGES, RESEARCH OPPORTUNITIES, SECONDARY SCHOOL SCIENCE.

ED 017 472

MAHLER, FRED

LIFE AND EARTH SCIENCE, JUNIOR HIGH SCHOOL. SAM HOUSTON STATE COLL., HUNTSVILLE, TEXAS.

PUBDATE MAY 67

EDRS PRICE MF-\$2.25 HC-\$30.90 616P.

DESCRIPTORS— *BIOLOGY, *CURRICULUM GUIDES, *EARTH SCIENCE, *EVALUATION, *GRADE 7, *GRADE 8, PROBLEM SOLVING, SECONDARY SCHOOL SCIENCE, TEXAS.

ED 017 473

SCIENCE EDUCATION INFORMATION REPORT, BIBLIOGRAPHY 4, CURRICULUM.

ERIC INFORM. ANAL. CEN. FOR SCI. EDUC., COLUMBUS, OHIO

PUBDATE 67

EDRS PRICE MF-\$0.50 HC-\$6.10 120P.

DESCRIPTORS— *ABLE STUDENTS, *CHEMISTRY, *COLLEGE SCIENCE, *CONSERVATION EDUCATION, *CURRICULUM, *CURRICULUM DEVELOPMENT, *CURRICULUM GUIDES, *DISADVANTAGED YOUTH, *EARTH SCIENCE, *ELEMENTARY SCHOOL

SCIENCE, *GEOLOGY, *INTERNATIONAL EDUCATION, *OUTDOOR EDUCATION, *PHYSICAL SCIENCES, *PHYSICS, *SCIENCE COURSE IMPROVEMENT PROJECT, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHING GUIDES, GENERAL SCIENCE, INSERVICE EDUCATION, INTEGRATED CURRICULUM, MATHEMATICS, NATURAL SCIENCES.

ED 017 474

BAKER, JEFFREY, J. W.

BIOLOGY IN A LIBERAL EDUCATION.

REPORT NUMBER CUEBS-PUBLICATION-15

PUBDATE FEB 67

EDRS PRICE MF-\$0.25 HC-\$2.70 52P.

DESCRIPTORS— *BIOLOGY, *COLLEGE SCIENCE, *CONFERENCE REPORTS, *COURSE CONTENT, *COURSE ORGANIZATION, *CURRICULUM PLANNING, *GENERAL EDUCATION, *UNDERGRADUATE STUDY, COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES, EDUCATIONAL OBJECTIVES, INTEGRATED CURRICULUM, SCIENCE EDUCATION, SECONDARY SCHOOL SCIENCE.

ED 017 476 88

PROJECTS IN IMAGINATIVE NATURE EDUCATION, SURVEY REPORT AND OUTDOOR LABORATORY PLAN.

NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.

REPORT NUMBER DPSC-66-1522

PUBDATE JAN 67

EDRS PRICE MF-\$0.50 HC-\$3.85 75P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL OBJECTIVES, *EDUCATIONAL PROGRAMS, *OUTDOOR EDUCATION, *PROGRAM PLANNING, ART, BIOLOGY, CONSERVATION EDUCATION, EARTH SCIENCE, ECOLOGY, ELEMENTARY SCHOOL SCIENCE, INSTRUCTION, LANGUAGE ARTS, MATHEMATICS, MUSIC, NATIONAL AUDUBON SOCIETY, NATURE CENTERS, SECONDARY SCHOOL SCIENCE.

ED 017 477

BRAINARD, ROBERT W.

SCIENCE POLICY BULLETIN NUMBER 3.

BATELLE MEMORIAL INST., COLUMBUS, OHIO.

PUBDATE FEB 68

EDRS PRICE MF-\$0.25 HC-\$2.70 52P.

DESCRIPTORS— *BIBLIOGRAPHIES, *ENGINEERING, *HIGHER EDUCATION, *POLICY FORMATION, *RESEARCH, *SCIENCES, *TECHNOLOGY, ANNOTATED BIBLIOGRAPHIES, CONSERVATION EDUCATION, FINANCIAL SUPPORT, INDUSTRY, INTER-AGENCY COOPERATION, MANAGEMENT, NATURAL RESOURCES, SCIENTIFIC MANPOWER, SCIENTIFIC RESEARCH, SOCIAL SCIENCES.

ED 017 478

BRAINARD, ROBERT W.

SCIENCE POLICY BULLETIN NUMBER 2.

BATTELLE MEMORIAL INST., COLUMBUS, OHIO.

PUB DATE DEC 67

EDRS PRICE MF-\$0.25 HC-\$2.45 47P.

DESCRIPTORS— *BIBLIOGRAPHIES, *ENGINEERING, *FINANCIAL SUPPORT, *HIGHER EDUCATION, *POLICY FORMATION, *RESEARCH, *SCIENCES, *SOCIAL CHANGE, *TECHNOLOGY, ADULT EDUCATION, ANNOTATED BIBLIOGRAPHIES, CONSERVATION EDUCATION, GRANTS, INTERAGENCY COOPERATION, INTERNATIONAL PROGRAMS, MANAGEMENT, NATURAL RESOURCES, SCIENTIFIC MANPOWER, SCIENTIFIC RESEARCH.

ED 017 479

BRAINARD, ROBERT W.

SCIENCE POLICY BULLETIN NUMBER 1.

BATTELLE MEMORIAL INST., COLUMBUS, OHIO.

PUB DATE OCT 67

EDRS PRICE MF-\$0.25 HC-\$1.85 35P.

DESCRIPTORS— *BIBLIOGRAPHIES, *ENGINEERING, *FINANCIAL SUPPORT, *HIGHER EDUCATION, *POLICY FORMATION, *RESEARCH, *SCIENTIFIC RESEARCH, *SOCIAL CHANGE, *TECHNOLOGY, ADULT EDUCATION, ANNOTATED BIBLIOGRAPHIES, CONSERVATION EDUCATION, DEVELOPING NATIONS, GRANTS, INTERAGENCY COOPERATION, INTERNATIONAL PROGRAMS, MANAGEMENT, NATURAL RESOURCES, PUBLIC HEALTH, SCIENCES.

ED 017 480

CARVAJAL, JOAN MUNZER, MARTHA E.

CONSERVATION EDUCATION, A SELECTED BIBLIOGRAPHY.

CONSERVATION EDUCATION ASSN., BILLINGS, MONT.

PUB DATE 68

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *CONSERVATION EDUCATION, *INSTRUCTIONAL MATERIALS, *RESOURCE MATERIALS, ADULT EDUCATION, AUDIOVISUAL AIDS, BIOLOGY, BOTANY, COLLEGE SCIENCE, DIRECTORIES, EARTH SCIENCE, ECOLOGY, ELEMENTARY SCHOOL SCIENCE, GENERAL SCIENCE, NATURAL RESOURCES, OUTDOOR EDUCATION, SECONDARY SCHOOL SCIENCE, TEXTBOOKS, ZOOLOGY.

ED 017 481

BIOLOGY FOR THE NON-MAJOR.

COMMITTEE ON UNDERGRADUATE EDUC. BIOLOGICAL SCI.

REPORT NUMBER CUEBS-PUBLICATION-19

PUB DATE 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *COLLEGE SCIENCE, *COURSE CONTENT, *COURSE OBJECTIVES, *COURSE ORGANIZATION, *CURRICULUM DEVELOPMENT, *GENERAL EDUCATION, *INSTRUCTIONAL MATERIALS, COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES.

ED 017 926

RAISNER, ARNOLD AND OTHERS

SCIENCE INSTRUCTION IN SPANISH FOR PUPILS OF SPANISH SPEAKING BACKGROUND, AN EXPERIMENT IN BILINGUALISM. FINAL REPORT. NEW YORK CITY BOARD OF EDUCATION, BROOKLYN, N.Y.

REPORT NUMBER BR-5-1063

REPORT NUMBER CRP-2370

PUB DATE JUN 67

CONTRACT OEC-5-10-033

EDRS PRICE MF-\$1.00 HC-\$10.15 201P.

DESCRIPTORS— *BILINGUALISM, *JUNIOR HIGH SCHOOL STUDENTS, *PROGRAM EVALUATION, *SCIENCE CURRICULUM, *SPANISH SPEAKING, CURRICULUM EVALUATION, NEW YORK CITY, PARENT STUDENT RELATIONSHIP, PUERTO RICANS, SCIENCE EDUCATION, SCIENCE PROGRAMS, SECOND LANGUAGE LEARNING, SELF CONCEPT.

ED 018 128
WORLD FILM DIRECTORY. AGENCIES CONCERNED
WITH EDUCATIONAL, SCIENTIFIC AND CULTURAL
FILMS. REPORTS AND PAPERS ON MASS
COMMUNICATION. NO. 35.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND
CULT. ORG.
REPORT NUMBER B-1746
PUB DATE 62
EDRS PRICE MF-\$0.50 HC-\$3.50 68P.

DESCRIPTORS— *DIRECTORIES. *EDUCATIONAL
FILMS. *FILMS. AUDIOVISUAL AIDS. FILMSTRIPS.
TECHNICAL EDUCATION.

ED 018 133
SCHRAMM, WILBUR
COMMUNICATIONS SATELLITES FOR EDUCATION.
SCIENCE AND CULTURE. REPORTS AND PAPERS
ON MASS COMMUNICATION. NO. 53.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND
CULT. ORG.
REPORT NUMBER B-2402
PUB DATE 68
EDRS PRICE MF-\$0.25 HC-\$1.55 29P.

DESCRIPTORS— *COMMUNICATION SATELLITES.
*CULTURAL EXCHANGE. *INFORMATION
DISSEMINATION. *INTERNATIONAL EDUCATION.
*NEWS MEDIA. COMMUNICATIONS. COMSAT. DATA
ANALYSIS. DATA COLLECTION. EDUCATION.
EXCHANGE PROGRAMS. INFORMATION SCIENCE.
INTELSAT. MASS MEDIA. NETWORKS. SCIENCE.

ED 018 237
GOODMAN, ARNOLD F. AND OTHERS
DOD USER-NEEDS STUDY. PHASE II—FLOW OF
SCIENTIFIC AND TECHNICAL INFORMATION
WITHIN THE DEFENSE INDUSTRY. FINAL REPORT.
VOLUME I. OVERVIEW.
NORTH AMERICAN AVIATION INC., ANAHEIM,
CALIF.
REPORT NUMBER C6-2442/030-VOL.-1.
PUB DATE 30 NOV 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INFORMATION DISSEMINATION.
*INFORMATION NEEDS. *INFORMATION
UTILIZATION. *SCIENTIFIC PERSONNEL. *USE
STUDIES. COMMUNICATION (THOUGHT TRANSFER).
CORRELATION. DEFENSE DOCUMENTATION
CENTER (DDC). DEPARTMENT OF DEFENSE (DOD).
DOCUMENTATION. ENGINEERS. INFORMATION
RETRIEVAL. INFORMATION SOURCES.
INTERVIEWS. QUESTIONNAIRES. STATISTICAL
ANALYSIS. SURVEYS.

ED 018 358
GROBMAN, SYDNEY
STATUS STUDY OF SCHOOLS TEACHING EARTH AND
SPACE SCIENCE IN PENNSYLVANIA 1965—66.
PENNSYLVANIA STATE DEPT. OF PUBLIC
INSTRUCTION
PUB DATE JAN 66
EDRS PRICE MF-\$0.25 HC-\$1.30 24P.

DESCRIPTORS— *CURRICULUM. *EARTH SCIENCE,
*SECONDARY SCHOOL SCIENCE. ASTRONOMY.
COURSE CONTENT. GENERAL SCIENCE.
PENNSYLVANIA. SCIENCE FACILITIES. STUDENT
ENROLLMENT.

ED 018 359
MATTHEWS, WILLIAM H. III
PLANETARIUMS. OBSERVATORIES AND EARTH
SCIENCE EXHIBITS.
EARTH SCIENCE CURRICULUM PROJECT.
BOULDER, COLO.
REPORT NUMBER RS-6
AMERICAN GEOLOGICAL INST. WASHINGTON, D.C.
PUB DATE MAR 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DIRECTORIES. *EARTH SCIENCE,
*ELEMENTARY SCHOOL SCIENCE. *EXHIBITS.
*SCIENCE FACILITIES. *SECONDARY SCHOOL
SCIENCE. CANADA. EARTH SCIENCE CURRICULUM
PROJECT. MUSEUMS. PHYSICAL SCIENCES. UNITED
STATES.

ED 018 360
BELFIELD, W.
MODELS AND METHODS IN PRACTICAL BIOLOGY
FOR SECONDARY SCHOOLS.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY. *BOTANY. *IN-
STRUCTIONAL MATERIALS. *LABORATORY PROCE-
DURES. *PHYSIOLOGY. *RESOURCE MATERIALS.
*SECONDARY SCHOOL SCIENCE. *ZOOLOGY. LAB-
ORATORY MANUALS. SCIENCE ACTIVITIES.
TEXTBOOKS.

ED 018 361
DEL GIORNO, BETTE JOYCE
THE IMPACT OF CHANGING SCIENTIFIC
KNOWLEDGE ON SCIENCE EDUCATION IN THE
UNITED STATES SINCE 1850.
CONNECTICUT UNIV., STORRS
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM, *EDUCATIONAL PHILOSOPHY, *EDUCATIONAL PSYCHOLOGY, *ELEMENTARY SCHOOL SCIENCE, *SCIENCE EDUCATION, *SCIENCE EDUCATION HISTORY, *SECONDARY SCHOOL SCIENCE, BIOLOGY, CHEMISTRY, DOCTORAL THESES. EDUCATIONAL OBJECTIVES, HISTORY, PHYSICAL SCIENCES, PHYSICS.

ED 018 363

SAWYER, ROGER WILLIAMS FARMER, ROBERT A.
NEW IDEAS FOR SCIENCE FAIR PROJECTS.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *SCIENCE ACTIVITIES, *SCIENCE FAIRS, *SCIENCE MATERIALS, *SCIENCE PROJECTS, *SECONDARY SCHOOL SCIENCE, BIOLOGY, CHEMISTRY, MATHEMATICS.

ED 018 365

DAVIES, DON
THE TEACHER AND HIS STAFF, SELECTED DEMONSTRATION CENTERS.
NATIONAL COMMISSION ON TEACHER EDUC./PROF. STANDS.
NATIONAL EDUCATION ASSN., WASHINGTON, D.C.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *DEMONSTRATION CENTERS, *DIRECTORIES, *DISADVANTAGED YOUTH, *ELEMENTARY EDUCATION, *PROGRAM DESCRIPTIONS, *SECONDARY EDUCATION, *TEACHER EDUCATION, EXCEPTIONAL CHILDREN, INDEPENDENT STUDY, INDIVIDUAL INSTRUCTION, NATIONAL COMMISSION ON TEACHER EDUCATION AND PROFESSIONAL STANDARDS, PROGRAMED MATERIALS, TEACHER EDUCATION AND PROFESSIONAL STANDARDS, TEAM TEACHING, URBAN SCHOOLS.

ED 018 366

FIELD, STANLEY
GUIDE TO OPPORTUNITIES FOR EDUCATION, TRAINING AND RESEARCH IN THE SCIENCES.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DIRECTORIES, *EDUCATIONAL OPPORTUNITIES, *EDUCATIONAL PROGRAMS, *FINAN-

CIAL SUPPORT, *NATURAL SCIENCES, *SCIENCE EDUCATION, *UNDERGRADUATE STUDY, ATOMIC ENERGY COMMISSION, ELEMENTARY SCHOOL TEACHERS, ENGINEERING, FELLOWSHIPS, FOUNDATION PROGRAMS, GRADUATE STUDY, HIGH SCHOOL STUDENTS, INDUSTRY, INSERVICE TEACHER EDUCATION, NATIONAL SCIENCE FOUNDATION, RESEARCH, SCHOLARSHIP FUNDS, SCIENTIFIC RESEARCH, TEACHER EDUCATION.

ED 018 368

BARISCH, SYLVIA
DIRECTORY OF PHYSICS AND ASTRONOMY FACULTIES 1967—1968, UNITED STATES, CANADA, MEXICO. AMERICAN INST. OF PHYSICS, NEW YORK, N.Y.
REPORT NUMBER R-135.6.
PUB DATE 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ASTRONOMY, *COLLEGE SCIENCE, *COLLEGES, *DIRECTORIES, *FACULTY, *PHYSICS, *UNIVERSITIES, AMERICAN ASSOCIATION OF PHYSICS TEACHERS, AMERICAN INSTITUTE OF PHYSICS, CANADA, COLLEGE TEACHERS, MEXICO, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCES, TEACHERS, UNITED STATES.

ED 018 370

SMITH, FOSTER D. CREAGER, WILLIAM A.
DEVELOPING A COORDINATED INFORMATION PROGRAM FOR GEOLOGICAL SCIENTISTS IN THE UNITED STATES.
AMERICAN GEOLOGICAL INST., WASHINGTON, D.C.
PUB DATE DEC67
EDRS PRICE MF-\$0.25 HC-\$2.90 56P.

DESCRIPTORS— *EARTH SCIENCE, *INFORMATION DISSEMINATION, *INFORMATION RETRIEVAL, *INFORMATION STORAGE, *INFORMATION SYSTEMS, AMERICAN GEOLOGICAL INSTITUTE, INFORMATION SOURCES, NATIONAL SCIENCE FOUNDATION, PROGRAM DESCRIPTIONS.

ED 018 371 24

TURNER, GEORGE C. HETTICK, VERGIL
AN EVALUATIVE STUDY OF TEACHER CONSTRUCTED TEST ITEMS FOR BSCS BIOLOGY. FINAL REPORT.
CALIFORNIA STATE COLL., FULLERTON
REPORT NUMBER BR-6-8919
PUB DATE DEC 67
CONTRACT OEC-4-7-068919-3041
EDRS PRICE MF-\$1.25 HC-\$16.95 337P.

DESCRIPTORS— *ACHIEVEMENT TESTS, *BIOLOGY, *EVALUATION, *MULTIPLE CHOICE TESTS, *OBJECTIVE TESTS, *SCIENCE TESTS, *SECONDARY SCHOOL SCIENCE, *TEST CONSTRUCTION, BIOLOGICAL SCIENCES CURRICULUM STUDY YELLOW VERSION, TESTS.

ED 018 374 88
NUCLEAR SCIENCE CURRICULUM PROJECT.
INSTRUCTIONAL RESOURCES SUPPLEMENT.
CULVER CITY UNIFIED SCHOOL DISTRICT, CALIF.
REPORT NUMBER DPSC-66-1824
PUB DATE 68
EDRS PRICE MF-\$0.75 HC-\$7.25 143P.

DESCRIPTORS— *AUDIOVISUAL AIDS,
*CURRICULUM DEVELOPMENT, *INSTRUCTIONAL
MATERIALS, *NUCLEAR PHYSICS, *PHYSICAL
SCIENCES, *PHYSICS, *SECONDARY SCHOOL
SCIENCE, *TEACHING GUIDES, BIBLIOGRAPHIES,
FILMS, FILMSTRIPS, INSERVICE TEACHER
EDUCATION, NUCLEAR SCIENCE CURRICULUM
PROJECT, SAFETY, SCIENCE EQUIPMENT, SCIENCE
FACILITIES, SCIENCE MATERIALS, TEACHER
EDUCATION.

ED 018 375 88
CAMAREN, JAMES
NUCLEAR SCIENCE CURRICULUM PROJECT,
PROJECT I, INSTRUCTIONAL SPECIFICATIONS.
CULVER CITY UNIFIED SCHOOL DISTRICT, CALIF.
REPORT NUMBER DPSC-66-1824
PUB DATE 68
EDRS PRICE MF-\$1.25 HC-\$14.75 293P.

DESCRIPTORS— *ATOMIC STRUCTURE, *ATOMIC
THEORY, *BEHAVIORAL OBJECTIVES,
*CURRICULUM DEVELOPMENT, EDUCATIONAL
OBJECTIVES, *INSTRUCTION, *NUCLEAR PHYSICS,
*SECONDARY SCHOOL SCIENCE, *TEACHING
GUIDES, CHEMISTRY, CURRICULUM, NUCLEAR
SCIENCE CURRICULUM PROJECT, PHYSICAL
SCIENCES, PHYSICS, SYSTEMS ANALYSIS.

ED 018 376 88
GILFILLAN, WARREN C. BURGESS, ROBERT A.
THE FIELD STUDY NOTEBOOK FOR THE OUTDOOR
SCHOOL.
REPORT NUMBER DPSC-66-441
PUB DATE 66
EDRS PRICE MF-\$0.50 HC-\$3.20 62P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE,
*FIELD STUDIES, *INSTRUCTIONAL MATERIALS,
*OUTDOOR EDUCATION, BOTANY, EARTH SCIENCE,
ECOLOGY, FIELD INSTRUCTION, NATURAL
RESOURCES, OREGON, PORTLAND, REGIONAL
OUTDOOR EDUCATION PROGRAM, STUDENT
PROJECTS.

ED 018 377
FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT,
AND OTHER SCIENTIFIC ACTIVITIES, FISCAL YEARS
1965, 1966 AND 1967.
NATIONAL SCIENCE FOUNDATION, WASHINGTON,
D.C.
REPORT NUMBER NSF-66-25
PUB DATE 66
EDRS PRICE MF-\$1.00 HC-10.25 203P.

DESCRIPTORS— *FEDERAL AID, *FEDERAL
GOVERNMENT, *FEDERAL PROGRAMS,
*INFORMATION CENTERS, *INFORMATION
DISSEMINATION, *RESEARCH, *SCIENTIFIC
RESEARCH, AND WELFARE, ATOMIC ENERGY
COMMISSION, DEPARTMENT OF DEFENSE,
DEPARTMENT OF HEALTH, EDUCATION, NATIONAL
AERONAUTICS AND SPACE ADMINISTRATION, NA-
TIONAL INSTITUTE OF HEALTH, PROGRAM COSTS,
TECHNOLOGICAL ADVANCEMENT.

ED 018 379
PERLMAN, JACOB
CURRENT PROJECTS ON ECONOMIC AND SOCIAL IM-
PLICATIONS OF SCIENCE AND TECHNOLOGY 1964.
NATIONAL SCIENCE FOUNDATION, WASHINGTON,
D.C.
PUB DATE JUN 65
EDRS PRICE MF-\$0.75 HC NOT
AVAILABLE FROM EDRS 189P.

DESCRIPTORS— *DIRECTORIES, *NATURAL
SCIENCES, *RESEARCH PROJECTS, *SCIENTIFIC
MANPOWER, *SOCIOECONOMIC INFLUENCES,
ADMINISTRATIVE ORGANIZATION, AGRICULTURE,
CULTURAL FACTORS, ECONOMIC DEVELOPMENT,
ECONOMIC FACTORS, HISTORY, INDUSTRY,
INTERNATIONAL PROGRAMS, MANAGEMENT,
MANPOWER NEEDS, OFFICE OF ECONOMIC AND
MANPOWER STUDIES, PSYCHOLOGY, SOCIOLOGY,
TECHNOLOGICAL ADVANCEMENT. TECHNOLOGY.

ED 018 380
EISS, ALBERT
THE USE OF EDUCATIONAL TECHNOLOGY IN
PROVIDING KNOWLEDGE OF EDUCATIONAL
TECHNOLOGY AND SUGGESTIONS FOR ITS
APPLICATION TO SCIENCE SUPERVISORS. FINAL
REPORT.

NATIONAL SCIENCE TEACHERS ASSN.,
WASHINGTON, D.C.

REPORT NUMBER BR-7-C-006

PUB DATE JAN 68

CONTRACT OEC-1-7-070006-3789

EDRS PRICE MF-\$0.25 HC-\$2.35 45P.

DESCRIPTORS— *EDUCATIONAL PROGRAMS,
*INSERVICE EDUCATION, *PROGRAMED
MATERIALS, *SCIENCE SUPERVISION,
*SUPERVISION, BIBLIOGRAPHIES, EDUCATIONAL
OBJECTIVES, EDUCATIONAL RESEARCH,
INSTRUCTIONAL MATERIALS, SCHOOL INDUSTRY
RELATIONSHIP, SUPERVISORS, WORKSHOPS.

ED 018 381
CULL, R.G. AND OTHERS
OBJECTIVE TESTS IN SCIENCE FOR THIRD LEVEL
N.S.W. HIGHER SCHOOL CERTIFICATE.

PUB DATE 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT TESTS,
*EVALUATION, *SCIENCE TESTS, *SECONDARY
SCHOOL SCIENCE, *TESTING, AUSTRALIA, BIOLOGY,
CHEMISTRY, EARTH SCIENCE, ESSAY TESTS,
GENERAL SCIENCE, MULTIPLE CHOICE TESTS, NEW
SOUTH WALES, OBJECTIVE TESTS, PHYSICAL
SCIENCES, PHYSICS.

ED 018 382
MAHLER, FRED
APPENDIX AND BIBLIOGRAPHY TO BE USED WITH
LIFE AND EARTH SCIENCE GUIDES.
COOPERATIVE CURRICULUM CTR. FOR IMP. OF
EDUC. OPPOR.

PUB DATE SEP 67

EDRS PRICE MF-\$0.50 HC-\$3.25 63P.

DESCRIPTORS— *BIBLIOGRAPHIES, *BIOLOGY,
*EARTH SCIENCE, *ELEMENTARY SCHOOL
SCIENCE, *PHYSICAL SCIENCES, *SCIENCE
ACTIVITIES, *SECONDARY SCHOOL SCIENCE,
*TEACHING GUIDES, BOOKS, CURRICULUM GUIDES,
TEACHING TECHNIQUES, TEXTBOOKS.

ED 018 383
GILFILLAN, WARREN C. BURGESS, ROBERT A.
THE TEACHERS' HANDBOOK FOR THE OUTDOOR
SCHOOL.

PUB DATE 66

EDRS PRICE MF-\$0.25 HC-\$2.10 40P.

DESCRIPTORS— *CURRICULUM, *EDUCATIONAL
PROGRAMS, *ELEMENTARY SCHOOL SCIENCE,
*OUTDOOR EDUCATION, *PROGRAM DESCRIPTIONS,
*SECONDARY SCHOOL SCIENCE, *TEACHING
GUIDES, ART, BIOLOGY, CONSERVATION
EDUCATION, CURRICULUM DEVELOPMENT,
EARTH SCIENCE, ECOLOGY, HEALTH EDUCATION,
LANGUAGE ARTS, MATHEMATICS, MUSIC, NATU-
RAL RESOURCES, OREGON, PHYSICAL EDUCATION,
PORTLAND, REGIONAL OUTDOOR EDUCATION PRO-
GRAMS, SCIENCE EDUCATION, SOCIAL STUDIES.

ED 018 385
ASTRONOMY 88
LOUISIANA ARTS AND SCIENCE CENTER, BATON
ROUGE
REPORT NUMBER DPSC-66-1332-1
PUB DATE 67
EDRS PRICE MF-\$0.50 HC-\$5.50 108P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *A-
STRONOMY, *CURRICULUM, *ELEMENTARY
SCHOOL SCIENCE, *PHYSICAL SCIENCES,
*SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS,
BATON ROUGE, BIBLIOGRAPHIES, CURRICULUM
DEVELOPMENT, LOUISIANA, LOUISIANA ARTS AND
SCIENCE CENTER, SCIENCE ACTIVITIES, SCIENCE
UNITS, STUDENT PROJECTS, TEACHING GUIDES,
TEACHING TECHNIQUES, WORLD BOOK
ENCYCLOPEDIA.

ED 018 386 88
THE SYSTEMS OF THE HUMAN BODY.
LOUISIANA ARTS AND SCIENCE CENTER, BATON
ROUGE
REPORT NUMBER DPSC-66-1332-1
PUB DATE 67
EDRS PRICE MF-\$0.50 HC-\$3.10 60P.

DESCRIPTORS— *BIOLOGY, *ELEMENTARY
SCHOOL SCIENCE, *HUMAN BODY, *INSTRUCTION,
*SECONDARY SCHOOL SCIENCE, BATON ROUGE,
BIBLIOGRAPHIES, HEALTH EDUCATION,
LOUISIANA, LOUISIANA ARTS AND SCIENCE
CENTER, OBJECTIVE TESTS, SCIENCE UNITS,
TEACHING GUIDES, TESTS.

ED 018 388 88
UNIT, PETROLOGY.
LOUISIANA ARTS AND SCIENCE CENTER, BATON
ROUGE
REPORT NUMBER DPSC-66-1332-1
PUB DATE 67
EDRS PRICE MF-\$0.25 HC-\$1.90 36P.

DESCRIPTORS— *CURRICULUM, *EARTH SCIENCE,
*ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCI-
ENCES, *SCIENCE ACTIVITIES, *SECONDARY
SCHOOL SCIENCE, *TEACHING GUIDES,
AUDIOVISUAL AIDS. BATON ROUGE,
BIBLIOGRAPHIES, INSTRUCTIONAL MATERIALS,
LOUISIANA, LOUISIANA ARTS AND SCIENCE
CENTER, SCIENCE UNITS, STUDENT PROJECTS,
TEACHING TECHNIQUES, WORLD BOOK
ENCYCLOPEDIA.

ED 018 391 24
BALABANIAN, NORMAN LEPAGE, WILBUR R.
ELECTRICAL SCIENCE COURSE FOR ENGINEERING
COLLEGE SOPHOMORES, DEVELOPMENT OF AN IN-
TEGRATED PROGRAM UTILIZING A BROAD RANGE
OF MATERIALS. FINAL REPORT.
SYRACUSE UNIV., N.Y., DEPT. OF ELECTRICAL ENG.
REPORT NUMBER BR-5-0796
PUB DATE JAN 67
CONTRACT OEC-4-10-102
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE,
*CURRICULUM, *EDUCATIONAL PROGRAMS,
*ELECTRICITY, *ENGINEERING, *PHYSICAL
SCIENCES, *PROGRAMED INSTRUCTION, *SCIENCE
COURSES, CREATIVITY, CURRICULUM
DEVELOPMENT, DISCOVERY LEARNING, EDU-
CATIONAL OBJECTIVES, INSTRUCTION, LEARNING,
PROGRAM DESCRIPTIONS, SYRACUSE UNIVERSITY,
UNDERGRADUATE STUDY.

ED 018 392 08
LESCARBEAU, ROLAND F. AND OTHERS
A SUGGESTED CURRICULUM GUIDE FOR ELECTRO-
MECHANICAL TECHNOLOGY ORIENTED
SPECIFICALLY TO THE COMPUTER AND BUSINESS
MACHINE FIELDS. INTERIM REPORT.
HARTFORD UNIV., CONN., WARD TECHNICAL INSTI-
TUTE.
REPORT NUMBER BR-6-1489
PUB DATE 21 FEB 68
GRANT OEG-1-6-061489-2022
EDRS PRICE MF-\$0.50 HC-\$3.50 68P.

DESCRIPTORS— *COLLEGE SCIENCE,
*COMPUTERS, *CURRICULUM, *DATA PROCESSING,

*ELECTRONICS, *INDUSTRIAL EDUCATION,
*PHYSICAL SCIENCES, *TEACHING GUIDES,
*TECHNICAL EDUCATION, AUDIOVISUAL AIDS,
CURRICULUM DEVELOPMENT, DUNWOODY
INDUSTRIAL INSTITUTE, EDUCATIONAL
OBJECTIVES, EDUCATIONAL PROGRAMS, FACULTY,
MATHEMATICS, OREGON TECHNICAL INSTITUTE,
PHYSICS, PROFESSIONAL ASSOCIATIONS,
TECHNICAL OCCUPATIONS, TEXTBOOKS.

ED 018 395
ANNUAL REPORT 1967
ENGINEERING MANPOWER COMMISSION, NEW
YORK, N.Y.
PUB DATE FEB 68
EDRS PRICE MF-\$0.25 HC-\$1.45 27P.

DESCRIPTORS— *ANNUAL REPORTS,
*EMPLOYMENT STATISTICS, *ENGINEERING,
*ENGINEERING TECHNICIANS, *ENGINEERS,
*SCIENTIFIC MANPOWER, DIRECTORIES,
ENGINEERING MANPOWER COMMISSION,
ENGINEERS JOINT COUNCIL, FINANCIAL SUPPORT,
PHYSICAL SCIENCES, PROFESSIONAL
ASSOCIATIONS, SALARIES, SCIENTISTS.

ED 018 396
TRAIN, RUSSELL E.
A CRITICAL INDEX OF FILMS AND FILMSTRIPS IN
CONSERVATION DEALING WITH RENEWABLE RE-
SOURCE, NON-RENEWABLE RESOURCES,
RESOURCES AND PEOPLE, AND ECOLOGY.
CONSERVATION FOUNDATION, WASHINGTON, D.C.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION,
*FILMS, *FILMSTRIPS, *INSTRUCTIONAL
MATERIALS, ADULT EDUCATION, AUDIOVISUAL
AIDS, BIOLOGY, COLLEGE SCIENCE, EARTH
SCIENCE, ELEMENTARY SCHOOL SCIENCE,
GENERAL SCIENCE, INSTRUCTIONAL FILMS,
NATURAL RESOURCES, RESOURCE MATERIALS,
SECONDARY SCHOOL SCIENCE.

ED 018 399
LABORATORY EXERCISES IN OCEANOGRAPHY FOR
HIGH SCHOOLS.
FLORIDA ST. UNIV., TALLAHASSEE
NATIONAL SCIENCE FOUNDATION, WASHINGTON,
D.C.
REPORT NUMBER GW-1752
PUB DATE 67
EDRS PRICE MF-\$0.50 HC-\$4.60 90P.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS, *OCEANOLOGY, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, BIOLOGY, EARTH SCIENCE, LABORATORY TECHNIQUES, NATIONAL SCIENCE FOUNDATION, RESOURCE MATERIALS, SCIENCE EQUIPMENT.

ED 018 400

YAGER, ROBERT E. COSSMAN, GEORGE W.
GUIDELINES FOR THE DEVELOPMENT OF A
COURSE FOR SECONDARY SCHOOLS EMPHASIZING
THE INTERACTION OF SCIENCE AND THE CULTURE
OF MAN. FINAL REPORT.

IOWA UNIV., IOWA CITY

REPORT NUMBER BR-6-8445

PUB DATE JAN 66

CONTRACT OEC-3-7-068445-0374

EDRS PRICE MF-\$0.75 HC-\$8.05 159P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT,
*CURRICULUM DEVELOPMENT, *EVALUATION,
*SCIENTIFIC LITERACY, *SOCIAL STUDIES,
*SOCIOECONOMIC INFLUENCES, COURSE
DESCRIPTIONS, CRITICAL THINKING, CURRICULUM,
FACTS ABOUT SCIENCE, GRADE 11, GRADE 12,
INSTRUCTIONAL MATERIALS, SCIENCE OPINION
SURVEY, SECONDARY SCHOOL SCIENCE, STANFORD
ADVANCED SCIENCE ACHIEVEMENT TEST, STUDY
OF VALUES, TEST ON UNDERSTANDING SCIENCE,
VALUES, WATSON-GLASER CRITICAL THINKING
APPRAISAL.

ED 018 401

SULCOSKI, JOHN W.

NUCLEAR SCIENCE, AN INTRODUCTORY COURSE.

WILKES-BARRE CITY SCHOOLS, PA.

PUB DATE 67

GRANT OEG-3-7-703497-3783

EDRS PRICE MF-\$0.50 HC-\$4.15 81P.

DESCRIPTORS— *ATOMIC THEORY, *CHEMISTRY,
*CURRICULUM DEVELOPMENT, *CURRICULUM
GUIDES, *LABORATORY SAFETY, *NUCLEAR
PHYSICS, *PHYSICAL SCIENCES, *PHYSICS,
*TEACHING GUIDES, AUDIOVISUAL AIDS,
BIBLIOGRAPHIES, BIOLOGY, CURRICULUM, FILMS,
SCIENCE ACTIVITIES, SCIENCE EQUIPMENT,
SCIENCE FACILITIES, SCIENCE MATERIALS, WILKES
BARRE CITY SCHOOLS.

ED 018 566

KANTASEWI, NIPHON MC CLAY, DAVID R.

EXPERIMENTS IN THE USE OF PROGRAMED
MATERIALS IN TEACHING AN ELEMENTARY
COLLEGE COURSE IN THE BIOLOGICAL SCIENCES.

TEACHER EDUCATION RESEARCH SERIES, VOLUME
5, NUMBER 1.

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK

REPORT NUMBER TER-5-NO-1

PUB DATE 64

EDRS PRICE MF-\$0.25 HC-\$1.30 24P.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *COL-
LEGE STUDENTS, *CONVENTIONAL INSTRUCTION,
*PROGRAMED INSTRUCTION, *TEACHING
METHODS, COMPARATIVE ANALYSIS, EDUCATIONAL
EXPERIMENTS, GROUP DISCUSSION, LECTURE,
PROBLEM SOLVING, TEST SCORES.

ED 018 979

KRULIK, STEPHEN KAUFMAN, IRWIN

HOW TO USE THE OVERHEAD PROJECTOR IN
MATHEMATICS EDUCATION.

PUB DATE 66

EDRS PRICE MF-\$0.25 HC NOT
AVAILABLE FROM EDRS. 32P.

DESCRIPTORS— *MATHEMATICS EDUCATION,
*OVERHEAD PROJECTORS, *TRANSPARENCIES,
PROJECTION EQUIPMENT, TEACHER DEVELOPED
MATERIALS.

ED 018 991

SHAPOVALENKO, S. G.

PROGRAMED TEACHING OF CHEMISTRY.

JOINT PUBLICATION RESEARCH SERVICE, WASHING-
TON, D. C.

REPORT NUMBER JPRS-22,730

REPORT NUMBER OTS-64-21287

PUB DATE 14 JAN 64

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ALGORITHMS, *CHEMISTRY
INSTRUCTION, *CYBERNETICS, *PROGRAMED
INSTRUCTION, ACADEMIC ACHIEVEMENT,
CONVENTIONAL INSTRUCTION, EDUCATIONAL
OBJECTIVES, FEEDBACK, GRADE 7, LEARNING
PROCESSES, MOSCOW, MOSCOW STATE
PEDAGOGICAL INSTITUTE, SCHOOL NO. 715, SEQUEN-
TIAL LEARNING, USSR.

ED 019 092

SHILLING, CHARLES W. BERMAN, BRUCE

SCIENCE INFORMATION SPECIALIST TRAINING PRO-
GRAM, A PROGRESS REPORT.

GEORGE WASHINGTON UNIV., WASHINGTON, D. C.

REPORT NUMBER BSCP-COMMUNIQUE-28-68

PUB DATE MAR 68

EDRS PRICE MF-\$0.25 HC-\$1.65 31P.

DESCRIPTORS— *ADMINISTRATION, *BIOLOGICAL SCIENCES, *EDUCATIONAL PROGRAMS, *INFORMATION SCIENCE, *MEDICAL LIBRARIES, AMERICAN UNIVERSITY, BIOLOGICAL SCIENCES COMMUNICATION PROJECT (BSCP), COURSE DESCRIPTIONS, GRADUATE STUDY, INFORMATION CENTERS, INFORMATION SPECIALISTS, INFORMATION THEORY, MANAGEMENT, NATIONAL LIBRARY OF MEDICINE, ON THE JOB TRAINING, UNIVERSITIES, WASHINGTON, D. C.

ED 019 101

AN OVERVIEW OF WORLDWIDE CHEMICAL INFORMATION FACILITIES AND RESOURCES. NATIONAL SCIENCE FOUNDATION, WASHINGTON, D. C.

PUB DATE SEP 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CHEMISTRY, *DOCUMENTATION, *INFORMATION SERVICES, *INFORMATION SYSTEMS, *SURVEYS, ABSTRACTS, AUTOMATION, INDEXES, INFORMATION CENTERS, LIBRARIES, PUBLISHING INDUSTRY, SCHOLARLY JOURNALS.

ED 019 212

**CARNES, PHYLLIS EILEEN
AN EXPERIMENTAL STUDY IN THE USE OF PROGRAMMED MATERIALS FOR SEVENTH-GRADE OPEN-ENDED LABORATORY EXPERIENCES.**

GEORGIA UNIV., ATHENS

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DOCTORAL THESES, *GENERAL SCIENCE, *INSTRUCTIONAL MATERIALS, *PROGRAMED INSTRUCTION, *PROGRAMED MATERIALS, *SECONDARY SCHOOL SCIENCE, *TEACHING PROCEDURES, COMPARATIVE ANALYSIS, CONCEPT FORMATION, CONVENTIONAL INSTRUCTION, GRADE 7, INSTRUCTION, KUDER GENERAL INTEREST SURVEY, LEARNING, OPEN ENDED EXPERIMENTS, SCIENCE ACTIVITIES.

ED 019 213

**BROWN, SANBORN C. CLARKE, NORMAN
THE EDUCATION OF A PHYSICIST, AN ACCOUNT OF THE INTERNATIONAL CONFERENCE ON THE EDUCATION OF PROFESSIONAL PHYSICISTS. LONDON 15—21, 1965.**

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CONFERENCE REPORTS, *EDUCATIONAL PROGRAMS, *GRADUATE STUDY, *INTERNATIONAL EDUCATION, CURRICULUM, ENGINEERING EDUCATION, GOVERNMENT ROLE, INDUSTRY, LONDON, MATHEMATICS EDUCATION, PHYSICAL SCIENCES, PHYSICS, PROFESSIONAL EDUCATION, RESEARCH, SCIENCE EDUCATION, SCIENTISTS, TEACHING TECHNIQUES, UNDERGRADUATE STUDY.

ED 019 214

CHANDLER, MARION N.

ILLUSTRATED HANDBOOK OF SOME COMMON MOLDS.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *MICROBIOLOGY, *RESOURCE MATERIALS, *SCIENCE COURSE IMPROVEMENT PROJECT, EDUCATIONAL SERVICES INCORPORATED, ELEMENTARY SCIENCE STUDY, NATIONAL SCIENCE FOUNDATION, SECONDARY SCHOOL SCIENCE.

ED 019 215

CHANDLER, MARION N.

TEACHER'S GUIDE FOR MICROGARDENING.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *MICROBIOLOGY, *SCIENCE ACTIVITIES, *SCIENCE MATERIALS, *TEACHING GUIDES, EDUCATIONAL SERVICES INCORPORATED, ELEMENTARY SCIENCE STUDY, INSTRUCTIONAL MATERIALS, NATIONAL SCIENCE FOUNDATION, RESOURCE MATERIALS, SCIENCE COURSE IMPROVEMENT PROJECT, SECONDARY SCHOOL SCIENCE

ED 019 216

CHANDLER, MARION N.

THE MICROGARDENING, COOKBOOK, DIRECTIONS FOR PREPARING DISHES AND TUBES OF STERILE NUTRIENT AGAR.

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *MICROBIOLOGY, *RESOURCE MATERIALS, SCIENCE COURSE IMPROVEMENT PROJECT, EDUCATIONAL SERVICES INCORPORATED, ELEMENTARY SCIENCE STUDY, NATIONAL SCIENCE FOUNDATION, SCIENCE MATERIALS, TEACHING GUIDES.

ED 019 217

PEAS AND PARTICLES, TEACHER'S GUIDE.

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE. *INSTRUCTIONAL MATERIALS. *SCIENCE ACTIVITIES. *SCIENCE COURSE IMPROVEMENT PROJECT. *TEACHING GUIDES. AUDIOVISUAL AIDS. EDUCATIONAL SERVICES INCORPORATED. ELEMENTARY SCIENCE STUDY. INSTRUCTION. MATHEMATICS. NATIONAL SCIENCE FOUNDATION. RESOURCE MATERIALS. SCIENCE UNITS.

ED 019 218

MESSERSCHMIDT, RALPH M. KARTSOTIS, A THOMAS

ELEMENTARY SCIENCE OUTLINE. A GUIDE TO SUGGESTED CURRICULUM PRACTICES IN ELEMENTARY SCHOOL SCIENCE.

LEHIGH VALLEY SCHOOL STUDY COUNCIL. ALLENTOWN, PA.

PUB DATE 66

EDRS PRICE MF-\$0.75 HC-\$8.05 159P.

DESCRIPTORS— *AUDIOVISUAL AIDS. *BIOLOGY. *CURRICULUM DEVELOPMENT. *ELEMENTARY SCHOOL SCIENCE. *GENERAL SCIENCE. ACOUSTICS. BIBLIOGRAPHIES. EARTH SCIENCE. ELECTRICITY. FIELD TRIPS. HEALTH EDUCATION. HEAT. INSTRUCTION. LIGHT. PHYSICAL SCIENCES. PROBLEM SOLVING. TEACHING GUIDES. TEACHING PROCEDURES.

ED 019 219

MATTHEWS, WILLIAM H., III

SELECTED REFERENCES FOR EARTH SCIENCE COURSES.

EARTH SCIENCE CURRICULUM PROJECT. BOULDER, COLO.

REPORT NUMBER RS-2

PUB DATE MAR 64

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ASTRONOMY. *EARTH SCIENCE. *GEOLOGY. *INSTRUCTION. *INSTRUCTIONAL MATERIALS. BIBLIOGRAPHIES. CAREER PLANNING. CAREERS. COLLEGE SCIENCE. CONSERVATION EDUCATION. EARTH SCIENCE CURRICULUM PROJECT. ELEMENTARY SCHOOL SCIENCE. FIELD TRIPS. LABORATORY MANUALS. METEOROLOGY. NATIONAL SCIENCE FOUNDATION. OCEANOLOGY. PHYSICAL GEOGRAPHY. REFERENCE BOOKS. REFERENCE MATERIALS. RESOURCE MATERIALS. SECONDARY SCHOOL SCIENCE. TEACHING GUIDES. TEXTBOOKS.

ED 019 220

72

POLJAKOFF-MAYBER, ALEXANDRA

STUDY OF BIOLOGY TEACHING AND THE PROSPECT OF ADAPTATION OF THE BSCS PROGRAM FOR HIGH SCHOOLS IN ISRAEL, FINAL REPORT.

HEBREW UNIV., JERUSALEM (ISRAEL)

REPORT NUMBER BR-5-1407

PUB DATE 66

EDRS PRICE MF-\$0.25 HC-\$0.70 12P.

DESCRIPTORS— *BIOLOGY. *CURRICULUM. *CURRICULUM DEVELOPMENT. *INTERNATIONAL EDUCATION. *SCIENCE COURSE IMPROVEMENT PROJECT. ACADEMIC ACHIEVEMENT. BIOLOGICAL SCIENCES CURRICULUM STUDY. COMPARATIVE ANALYSIS. EDUCATIONAL PROGRAMS. EVALUATION. GRADE 9. ISRAEL. SECONDARY SCHOOL SCIENCE. STUDENT ATTITUDES. TEST ON UNDERSTANDING SCIENCE.

ED 019 222

BATTERIES AND BULBS, BOOK 1, CIRCUITS I. AN EARLY EXPLORATION OF ELECTRICAL CIRCUITS AND MAGNETS

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COCURRICULAR ACTIVITIES. *ELECTRICITY. *ELEMENTARY SCHOOL SCIENCE. *INSTRUCTION. *MAGNETS. EDUCATIONAL SERVICES INCORPORATED. NATIONAL SCIENCE FOUNDATION. PHYSICAL SCIENCES. SCIENCE COURSE IMPROVEMENT PROJECT. SECONDARY SCHOOL SCIENCE. TEACHING GUIDES.

ED 019 223

BATTERIES AND BULBS, BOOK 2, CIRCUITS AND MAGNETS.

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELECTRIC BATTERIES. *ELECTRIC CIRCUITS. *ELECTRICITY. *ELEMENTARY SCHOOL SCIENCE. *MAGNETS. EDUCATIONAL SERVICES INCORPORATED. INSTRUCTION. NATIONAL SCIENCE FOUNDATION. PHYSICAL SCIENCES. SCIENCE ACTIVITIES. SECONDARY SCHOOL SCIENCE. TEACHING GUIDES.

ED 019 225

BOULIND, HENRY F.

THE 1966 REPORT ON THE TEACHING OF ELECTRICITY. A REPORT OF A SUB-COMMITTEE OF THE ASSOCIATION FOR SCIENCE EDUCATION. ASSOCIATION FOR SCIENCE EDUC., CAMBRIDGE (ENGLAND)

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELECTRICITY, *INSTRUCTION, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, ASSOCIATION FOR SCIENCE EDUCATION, BIBLIOGRAPHIES, CURRICULUM, GREAT BRITAIN, PHYSICS, SCIENCE ACTIVITIES, SCIENCE EQUIPMENT, TEACHING GUIDES.

ED 019 227

REORGANIZED SCIENCE CURRICULUM, 6A, SIXTH GRADE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

PUB DATE 01 DEC 64

EDRS PRICE MF-\$0.75 HC-\$7.70 152P.

DESCRIPTORS— *CHEMISTRY, *CURRICULUM, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *GRADE 6, ASTRONOMY, BIOLOGY, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, TEACHING GUIDES.

ED 019 228

REORGANIZED SCIENCE CURRICULUM, 7B.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

EDRS PRICE MF-\$1.25 HC-\$13.50 268P.

DESCRIPTORS— *BIBLIOGRAPHIES, *CURRICULUM DEVELOPMENT, *GRADE 7, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, BIOLOGY, CURRICULUM, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 229

REORGANIZED SCIENCE CURRICULUM, 7A, GRADE SEVEN SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

PUB DATE 21 OCT 66

EDRS PRICE MF-\$0.50 HC-\$3.40 66P.

DESCRIPTORS— *BIOLOGY, *CURRICULUM DEVELOPMENT, *GRADE 7, *SCIENTIFIC ATTITUDES, *SECONDARY SCHOOL SCIENCE, CURRICULUM, ECOLOGY, ELEMENTARY SCHOOL SCIENCE, INSTRUCTIONAL MATERIALS, LABORATORY TECHNIQUES, MINNEAPOLIS, MINNESOTA, SCIENCE ACTIVITIES, SCIENCE COURSES, TEACHING GUIDES.

ED 019 230

REORGANIZED SCIENCE CURRICULUM, 6C, SIXTH GRADE SUPPLEMENT.

MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

EDRS PRICE MF-\$0.75 HC-\$6.70 132P.

DESCRIPTORS— *ASTRONOMY, *BIBLIOGRAPHIES, *CHEMISTRY, *CURRICULUM, *CURRICULUM DEVELOPMENT, BIOLOGY, EARTH SCIENCE, ELEMENTARY SCHOOL SCIENCE, GRADE 6, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE EQUIPMENT, SCIENCE MATERIALS, TEACHING GUIDES.

ED 019 231

REORGANIZED SCIENCE CURRICULUM, 3, GRADE THREE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

PUB DATE 01 OCT 62

EDRS PRICE MF-\$0.75 HC-\$8.85 175P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *TEACHING GUIDES, ASTRONOMY, BIBLIOGRAPHIES, BIOLOGY, EARTH SCIENCE, GRADE 3, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 232

REORGANIZED SCIENCE CURRICULUM, 4A, FOURTH GRADE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

PUB DATE 01 MAR 65

EDRS PRICE MF-\$0.75 HC-\$9.60 190P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *ECOLOGY, *ELEMENTARY SCHOOL SCIENCE, *GRADE 4, ASTRONOMY, BIOLOGY, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, TEACHING GUIDES.

ED 019 233

REORGANIZED SCIENCE CURRICULUM, 5A, FIFTH GRADE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

PUB DATE 01 DEC 64

EDRS PRICE MF-\$0.50 HC-\$6.40 126P.

DESCRIPTORS—*CURRICULUM,*CURRICULUM DEVELOPMENT,*ELEMENTARY SCHOOL SCIENCE, *GRADE 5, *TEACHING GUIDES, ASTRONOMY, BIOLOGY, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES.

ED 019 234

REORGANIZED SCIENCE CURRICULUM, 2, GRADE TWO SUPPLEMENT.

MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

PUB DATE 01 OCT 62

EDRS PRICE MF-\$0.75 HC-\$9.55 189P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *GRADE 2, *TEACHING GUIDES, ASTRONOMY, BIBLIOGRAPHIES, BIOLOGY, CURRICULUM, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 235

REORGANIZED SCIENCE CURRICULUM, 4B, FOURTH GRADE SUPPLEMENT.

MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

EDRS PRICE MF-\$0.75 HC-\$6.85 135P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT,*ELEMENTARY SCHOOL SCIENCE, *GRADE 4, *TEACHING GUIDES, ASTRONOMY, BIBLIOGRAPHIES, BIOLOGY, EARTH SCIENCE, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 236

REORGANIZED SCIENCE CURRICULUM, K, KINDERGARTEN SUPPLEMENT.

MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

PUB DATE 01 OCT 62

EDRS PRICE MF-\$0.75 HC-\$7.10 140P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *KINDERGARTEN, *TEACHING GUIDES,

ASTRONOMY, BIBLIOGRAPHIES, BIOLOGY, CURRICULUM, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 237

REORGANIZED SCIENCE CURRICULUM, 6B, A RESOURCE UNIT TO BE TAUGHT IN GRADE SIX.

MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

EDRS PRICE MF-\$1.00 HC-\$12.20 242P.

DESCRIPTORS— *ASTRONOMY, *CURRICULUM, *CURRICULUM DEVELOPMENT, *GRADE 6, *TEACHING GUIDES, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES.

ED 019 238

REORGANIZED SCIENCE CURRICULUM, 5B, FIFTH GRADE SUPPLEMENT.

MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

EDRS PRICE MF-\$0.75 HC-\$8.75 173P.

DESCRIPTORS— *BIBLIOGRAPHIES, *CURRICULUM, *CURRICULUM DEVELOPMENT, *GRADE 5, *TEACHING GUIDES, ASTRONOMY, BIOLOGY, EARTH SCIENCE, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 239

REORGANIZED SCIENCE CURRICULUM, 10A, BIOLOGY SUPPLEMENT.

MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.

PUB DATE 09 DEC 66

EDRS PRICE MF-\$0.75 HC-\$7.45 147P.

DESCRIPTORS— *BIOLOGY, *CURRICULUM DEVELOPMENT, *ECOLOGY, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, BIBLIOGRAPHIES, CURRICULUM, GRADE 10, INSTRUCTION, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, TEACHING TECHNIQUES.

ED 019 240
REORGANIZED SCIENCE CURRICULUM, 9, NINTH
GRADE SUPPLEMENT
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1,
MINN.
PUB DATE 21 OCT 66
EDRS PRICE MF-\$0.75 HC-\$9.80 194P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM
DEVELOPMENT, *GRADE 9, *SCIENTIFIC
ATTITUDES, *SECONDARY SCHOOL SCIENCE,
ASTRONOMY, BIBLIOGRAPHIES, EARTH SCIENCE,
MINNEAPOLIS, MINNESOTA, SCIENCE ACTIVITIES,
SCIENCE EQUIPMENT, SCIENCE MATERIALS,
TEACHING GUIDES.

ED 019 241
REORGANIZED SCIENCE CURRICULUM, 8, GRADE
EIGHT SUPPLEMENT
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1,
MINN.
PUB DATE 21 OCT 66
EDRS PRICE MF-\$0.50 HC-\$3.70 72P.

DESCRIPTORS— *BIBLIOGRAPHIES, *CUR-
RICULUM, *CURRICULUM DEVELOPMENT, *EARTH
SCIENCE, *GRADE 8, ASTRONOMY, GEOLOGY,
INSTRUCTIONAL MATERIALS, METEOROLOGY,
MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES,
SCIENCE ACTIVITIES, SCIENCE EQUIPMENT,
SCIENCE MATERIALS, SECONDARY SCHOOL
SCIENCE, TEACHING GUIDES.

ED 019 242
REORGANIZED SCIENCE CURRICULUM, 1, GRADE
ONE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1,
MINN.
PUB DATE 01 OCT 62
EDRS PRICE MF-\$0.75 HC-\$6.80 134P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM
DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE,
*GRADE 1, *TEACHING GUIDES, ASTRONOMY,
BIBLIOGRAPHIES, BIOLOGY, EARTH SCIENCE,
INSTRUCTIONAL MATERIALS, MINNEAPOLIS,
MINNESOTA, PHYSICAL SCIENCES, SCIENCE
ACTIVITIES, SCIENCE COURSES, SCIENCE
EQUIPMENT, SCIENCE MATERIALS.

ED 019 244
ALDEN, JOHN D.
ENGINEERING AND TECHNICIAN ENROLLMENTS
FALL 1967. SUMMARY REPORT.
ENGINEERING MANPOWER COMMISSION, NEW
YORK, N.Y.

PUB DATE JAN 68
EDRS PRICE MF-\$0.25 HC-\$1.55 29P.

DESCRIPTORS— *COLLEGE SCIENCE, *ENGI-
NEERING EDUCATION, *ENROLLMENT TRENDS,
*SCIENTIFIC MANPOWER, COMMUNITY COLLEGES,
ENGINEERING COUNCIL ON PROFESSIONAL
DEVELOPMENT, HIGHER EDUCATION, TECHNICAL
EDUCATION, TECHNICAL INSTITUTES.

ED 019 245
PIAGET, JEAN
THE CHILD'S CONCEPTION OF THE WORLD.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COGNITIVE PROCESSES,
*CONCEPT FORMATION, *ELEMENTARY SCHOOL
SCIENCE, *LEARNING THEORIES, *RESEARCH
METHODOLOGY, EDUCATIONAL PSYCHOLOGY,
SCIENTIFIC CONCEPTS, SECONDARY SCHOOL
SCIENCE, STUDENT CHARACTERISTICS.

ED 019 246
PIAGET, JEAN
THE CHILD'S CONCEPTION OF PHYSICAL
CAUSALITY
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COGNITIVE PROCESSES,
*CONCEPT FORMATION, *EDUCATIONAL
PSYCHOLOGY, *ELEMENTARY SCHOOL SCIENCE,
*LEARNING THEORIES, LOGIC, PHYSICAL
SCIENCES, SCIENTIFIC CONCEPTS, STUDENT
CHARACTERISTICS.

ED 019 247
HOOVER, LINN
GEOTIMES, NEWS OF THE EARTH SCIENCES.
AMERICAN GEOLOGICAL INST., WASHINGTON, D.C.
PUB DATE MAR 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE,
*CURRICULUM DEVELOPMENT, *EARTH SCIENCE,
*EDUCATIONAL NEEDS, *EDUCATIONAL
PROGRAMS, CANADA, EARTH SCIENCE CUR-
RICULUM PROJECT, EDUCATIONAL RESEARCH,
EDUCATIONAL TRENDS, ENGLAND, FRANCE,
GEOLOGY, GERMANY, GRADUATE STUDY,
NATIONAL SCIENCE FOUNDATION, NATURAL
RESOURCES, OCEANOLOGY, PROFESSIONAL
ASSOCIATIONS, SECONDARY SCHOOL SCIENCE,
TEACHER EDUCATION, TEACHERS, UNDER-
GRADUATE STUDY.

ED 019 248

A RESOURCE BOOK OF AEROSPACE ACTIVITIES, K-6.
LINCOLN PUBLIC SCHOOLS, NEBR.

PUB DATE 67

EDRS PRICE MF-\$1.00 HC-\$13.10 260P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE.
*PHYSICAL SCIENCES. *SCIENCE ACTIVITIES.
*SECONDARY SCHOOL SCIENCE. *TEACHING
GUIDES. ASTRONOMY. BIBLIOGRAPHIES.
BIOGRAPHIES. FIELD TRIPS. FILMS. FILMSTRIPS.
SCIENCE HISTORY. VOCABULARY.

ED 019 249

CUMMINGS, HOWARD H.

SCIENCE AND THE SOCIAL STUDIES. TWENTY-
SEVENTH YEARBOOK OF THE NATIONAL COUNCIL
FOR THE SOCIAL STUDIES 1956-57.

NATIONAL COUNCIL FOR THE SOCIAL STUDIES,
WASH., D.C.

PUB DATE 57

EDRS PRICE MF-\$1.25 HC NOT
AVAILABLE FROM EDRS. 287P.

DESCRIPTORS— *CURRICULUM. *EDUCATIONAL
OBJECTIVES. *INTERDISCIPLINARY APPROACH.
*SOCIOECONOMIC INFLUENCES. *TECHNOLOGICAL
ADVANCEMENT. AGRICULTURE. CURRICULUM
PLANNING. DEVELOPING NATIONS. ELEMENTARY
EDUCATION. MANPOWER NEEDS. MEDICAL
RESEARCH. NATIONAL COUNCIL FOR SOCIAL
STUDIES. NATIONAL SCIENCE FOUNDATION.
PROBLEM SOLVING. SECONDARY EDUCATION.
SUMMER INSTITUTES. TEACHER EDUCATION.

ED 019 250

BIBLIOGRAPHY OF SCIENCE COURSES OF STUDY
AND TEXTBOOKS GRADES 7-12, 1968.

NATIONAL SCIENCE TEACHERS ASSN.,
WASHINGTON, D.C.

REPORT NUMBER 471-14296

PUB DATE 68

EDRS PRICE MF-\$0.50 HC NOT
AVAILABLE FROM EDRS. 50P.

DESCRIPTORS— *BIBLIOGRAPHIES. *CURRICULUM
DEVELOPMENT. *SCIENCE COURSE
IMPROVEMENT PROJECT. *SECONDARY SCHOOL
SCIENCE. BIOLOGICAL SCIENCES. CHEMISTRY.
CURRICULUM GUIDES. EARTH SCIENCE. GENERAL
SCIENCE. INSTRUCTIONAL MATERIALS.
LABORATORY MANUALS. NATIONAL SCIENCE
TEACHERS ASSOCIATION. PHYSICAL SCIENCES.

PHYSICS. PROGRAMED MATERIALS. REFERENCE
MATERIALS. SCIENCE EDUCATION. SCIENCE
EXPERIMENTS. TEACHING GUIDES. TEXTBOOKS

ED 019 252

CHAPMAN, FRANK L.

MARINE SCIENCE FILM CATALOG. MOVIES,
FILMSTRIPS, AND SLIDES.

CARTERET COUNTY PUBLIC SCHOOLS, BEAU FORT,
N.C.

EDRS PRICE MF-\$0.50 HC-\$3.60 70P.

DESCRIPTORS— *AUDIOVISUAL AIDS.
*AUDIOVISUAL CENTERS. *CATALOGS. *FILMS.
*FILMSTRIPS. BIOLOGY. COLLEGE SCIENCE. EARTH
SCIENCE. ECOLOGY. ELEMENTARY AND
SECONDARY EDUCATION ACT TITLE 3.
ELEMENTARY SCHOOL SCIENCE. OCEANOLOGY.
PHYSICAL SCIENCES. SECONDARY SCHOOL
SCIENCE.

ED 019 253 24

ABRAHAMSON, STEPHEN DENSON, JUDSON S.

A DEVELOPMENTAL STUDY OF MEDICAL TRAINING
SIMULATORS FOR ANESTHESIOLOGISTS. FINAL
REPORT.

UNIVERSITY OF SOUTHERN CALIFORNIA, LOS
ANGELES

REPORT NUMBER BR-5-0917

PUB DATE 31 JAN 68

CONTRACT OEC-6-10-135

EDRS PRICE MF-\$1.00 HC-\$10.90 216P.

DESCRIPTORS— *ANESTHESIOLOGY. *COMPUTER
ASSISTED INSTRUCTION. *INSTRUCTION. *MEDICAL
SCHOOLS. *MEDICAL STUDENTS. CALIFORNIA.
GRADUATE STUDY. PROFESSIONAL TRAINING.
SIMULATORS. TEACHING MODELS. UNIVERSITY OF
SOUTHERN CALIFORNIA.

ED 019 563

RANDALL, RAYMOND L., ED. SIMPSON, DICK W.,
ED.

SCIENCE ADMINISTRATION, EDUCATION, AND
CAREER MOBILITY. SUMMARY OF PROCEEDINGS
AND WORKING PAPERS OF THE UNIVERSITY-
FEDERAL AGENCY CONFERENCE (NOVEMBER 7-9,
1965).

INDIANA UNIV., BLOOMINGTON. INST. OF PUB.
ADMIN.

PUB DATE 01 MAY 66

EDRS PRICE MF-\$0.50 HC-\$4.95 97P.

DESCRIPTORS— *CAREER PLANNING, *EDUCATIONAL NEEDS, *FEDERAL GOVERNMENT, *GOVERNMENT EMPLOYEES, *SCIENTIFIC PERSONNEL, ADMINISTRATIVE PERSONNEL, COOPERATIVE PLANNING, DEGREES (TITLES), EDUCATIONAL BACKGROUND, EMPLOYMENT EXPERIENCE, ENGINEERS, INDUSTRY, MOBILITY, MOTIVATION, OCCUPATIONAL INFORMATION, PHYSICAL FACILITIES, PROFESSIONAL CONTINUING EDUCATION, RECRUITMENT, RESEARCHERS, SELECTION, STATISTICAL DATA, UNITED STATES CIVIL SERVICE COMMISSION, UNITS OF STUDY (SUBJECT FIELDS), UNIVERSITIES.

ED 019 584

BOGEN, GERALD KEITH

AN APPRAISAL OF THE TRAVELING SCIENCE DEMONSTRATION LECTURE PROGRAM IN OREGON AND ITS EFFECTIVENESS AS AN AGENT FOR INSERVICE EDUCATION.

OREGON UNIV., EUGENE

PUB DATE 63

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INSERVICE TEACHER EDUCATION, *MOBILE EDUCATIONAL SERVICES, *PROGRAM EVALUATION, *SCIENCE COURSE IMPROVEMENT PROJECT, *SCIENCE TEACHERS, DOCTORAL THESES, EDUCATIONAL IMPROVEMENT, MEASUREMENT INSTRUMENTS, OREGON, RESEARCH, STUDENT SCIENCE INTERESTS, TEACHER IMPROVEMENT.

ED 019 679

WALBERG, HERBERT J.

A PORTRAIT OF THE ARTIST AND THE SCIENTIST AS YOUNG MEN-I. BIOGRAPHICAL CHARACTERISTICS OF AWARD WINNERS IN THE TWO CULTURES.

HARVARD UNIV., CAMBRIDGE, MASS.

PUB DATE SEP 67

EDRS PRICE MF-\$0.25 HC-\$1.65 31P.

DESCRIPTORS— *ARTISTS, *CREATIVE THINKING, *INDIVIDUAL CHARACTERISTICS, *SCIENTISTS, BIOGRAPHICAL INVENTORY, INTELLIGENCE, SOCIAL RELATIONS, VALUES, WORK ATTITUDES.

ED 019 811

RICHARDSON, JOHN S.

ROOMS FOR DEVELOPMENTAL SCIENCE COURSES. SCHOOL FACILITIES FOR SCIENCE INSTRUCTION. 2ND EDITION.

NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.

PUB DATE 61

EDRS PRICE MF-\$0.25 HC-\$0.50 8P.

DESCRIPTORS— *FACILITY REQUIREMENTS, *SCIENCE CURRICULUM, *SCIENCE FACILITIES, *SCIENCE INSTRUCTION, *SECONDARY SCHOOL SCIENCE, EQUIPMENT UTILIZATION, LABORATORY EQUIPMENT, PHYSICAL SCIENCES, SCIENCE EQUIPMENT, SCIENCE LABORATORIES.

ED 019 833

A CENTER FOR CONFERENCES AND CONTINUING EDUCATION.

CAUDILL, ROWLETT, SCOTT AND ASSOCIATES, BRYAN, TEX.

UNIVERSITY CITY SCIENCE CENTER, PHILADELPHIA, PA.

PUB DATE OCT 66

EDRS PRICE MF-\$0.25 HC-\$2.20 42P.

DESCRIPTORS— *CONFERENCES, *CONTINUING EDUCATION CENTERS, *SCIENCE INSTITUTES, ARCHITECTURAL CHARACTER, AUDIOVISUAL COMMUNICATION, FACILITIES, HIGHER EDUCATION, SEMINARS, STRUCTURAL BUILDING SYSTEMS, SYMPOSIA, URBAN RENEWAL.

ED 019 838

HOROWITZ, HAROLD

SAFETY IN THE DESIGN OF SCIENCE LABORATORIES AND BUILDING CODES.

NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

BUILDING OFFICIALS CONFERENCE OF AMERICA, INC.

PUB DATE JUN 66

EDRS PRICE MF-\$0.25 HC-\$0.90 16P.

DESCRIPTORS— *BUILDING DESIGN, *CAMPUS PLANNING, *HEALTH, *SAFETY, *SCIENCE LABORATORIES, BIOLOGY, BUILDING EQUIPMENT, BUILDING MATERIALS, CHEMISTRY, LABORATORY SAFETY, SCIENCE EQUIPMENT, STATE STANDARDS, VENTILATION.

ED 019 873

WHITE, HARVEY E.

PLANNING, CONSTRUCTION, AND EVALUATION OF MEDIA FOR TEACHING HIGH SCHOOL AND JUNIOR COLLEGE SCIENCE VIA TELEVISION FOR USE IN SELF INSTRUCTION. FINAL REPORT.

CALIFORNIA UNIV., BERKELEY

REPORT NUMBER BR-6-2435

PUB DATE 31 MAR 67

CONTRACT OEC-4-6-062435-0646

EDRS PRICE MF-\$0.25 HC-\$2.45 47P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *AUTO-INSTRUCTIONAL AIDS, *SCIENCE EDUCATION, *SCIENCE MATERIALS, *TEACHING MODELS, BIOLOGY INSTRUCTION, CHABOT OBSERVATORY, CHEMISTRY INSTRUCTION, EDUCATIONAL TELEVISION, INSTRUCTIONAL FILMS, MATHEMATICS INSTRUCTION, MICROSCOPES, OAKLAND, PHYSICS INSTRUCTION, TAPE RECORDINGS.

ED 020 053

CHAPMAN, FRANK L.

EIGHTH GRADE UNIT. SEA—RESTLESS GIANT.

CARTERET COUNTY PUBLIC SCHOOLS. BEAUFORT, N.C.

REPORT NUMBER DPSC-67-4274

PUB DATE 68

EDRS PRICE MF-\$0.25 HC-\$2.30 44P.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS, *OCEANOLOGY, *OUTDOOR EDUCATION, *SCIENCE INSTRUCTION, *UNIT PLAN, BIOLOGY INSTRUCTION, CLASSROOM MATERIALS, ESEA TITLE 3, MARINE BIOLOGY, RESOURCE MATERIALS, RESOURCE UNITS, SCIENCE EDUCATION, SCIENCE MATERIALS, SCIENCE UNITS, WATER RESOURCES.

ED 020 100

WILLIAMS, HARRY KING, CLYDE

BIBLIOGRAPHIC GUIDE FOR ADVANCED PLACEMENT, CHEMISTRY.

NEW YORK STATE EDUCATION DEPT., ALBANY

PUB DATE 65

EDRS PRICE MF-\$0.25 HC-\$1.25 23P.

DESCRIPTORS— *ADVANCED PLACEMENT, *BIBLIOGRAPHIES, *CHEMISTRY, *INSTRUCTIONAL MATERIALS, *PERIODICALS, *SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS, BOOKLISTS, COURSES, ELEMENTARY AND SECONDARY EDUCATION ACT TITLE 2, NATIONAL DEFENSE EDUCATION ACT TITLE 3, TEXTBOOKS.

ED 020 101

SHEPPARD, MOSES MAURICE

THE RELATION OF VARIOUS TEACHER AND ENVIRONMENTAL FACTORS TO SELECTED LEARNINGS OF NINTH-GRADE SCIENCE PUPILS.

OHIO STATE UNIV., COLUMBUS

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *ENVIRONMENTAL INFLUENCES, *GRADE 9, *SECONDARY SCHOOL SCIENCE, *TEACHER CHARACTERISTICS, CRITICAL THINKING, NORTH CAROLINA, SEQUENTIAL TEST OF EDUCATIONAL PROGRESS (SCIENCE), TEACHER EDUCATION, TEACHER PLACEMENT, TEST ON UNDERSTANDING SCIENCE, WATSON GLASER CRITICAL THINKING APPRAISAL.

ED 020 102

SCIENCE 7, 8, 9, EXPERIMENTAL SYLLABUS BLOCK A, TAKING CARE OF OURSELVES.

NEW YORK STATE EDUCATION DEPT., ALBANY

EDRS PRICE MF-\$0.50 HC-\$4.20 82P.

DESCRIPTORS— *COURSE CONTENT, *GENERAL SCIENCE, *HEALTH, *HEALTH EDUCATION, *SECONDARY SCHOOL SCIENCE, CURRICULUM GUIDES, GRADE 7, GRADE 8, GRADE 9, NEW YORK, RESOURCE MATERIALS, SCIENCE ACTIVITIES.

ED 020 103

PORTER, T.R.

EARTH-SPACE SCIENCE TEACHING TIPS FROM TST, A COMPILATION OF ARTICLES FROM SEVEN YEARS OF THE SCIENCE TEACHER, 1960—1966.

NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.

PUB DATE 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, ASTRONOMY, AUDIOVISUAL AIDS, GEOLOGY, NATIONAL SCIENCE TEACHERS ASSOCIATION, OCEANOLOGY, SCIENCE ACTIVITIES, SCIENCE FACILITIES.

ED 020 105

NIX, JACK P.

SCIENCE FOR GEORGIA SCHOOLS, VOLUME II, INTERMEDIATE MANUAL.

GEORGIA STATE DEPT. OF EDUCATION, ATLANTA

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *CURRICULUM GUIDES, *ELEMENTARY SCHOOL SCIENCE, *TEACHING GUIDES, BIBLIOGRAPHIES, BIOLOGY, EARTH SCIENCE, GEORGIA, GRADE 4, GRADE 5, GRADE 6, PHYSICAL SCIENCES, SCIENCE ACTIVITIES.

ED 020 107
GROWING SEEDS. TEACHER'S GUIDE.
ELEMENTARY SCIENCE STUDY. NEWTON, MASS.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY. *ELEMENTARY
SCHOOL SCIENCE. *INSTRUCTIONAL MATERIALS.
*SCIENCE COURSE IMPROVEMENT PROJECT.
*SCIENCE MATERIALS. *TEACHING GUIDES.
AUDIOVISUAL AIDS. BOTANY. EDUCATIONAL
SERVICES INC.. ELEMENTARY SCIENCE STUDY.
RESOURCE MATERIALS. SCIENCE UNITS.

ED 020 108
BEHAVIOR OF MEALWORMS. TEACHER'S GUIDE.
ELEMENTARY SCIENCE STUDY. NEWTON, MASS.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BEHAVIOR. *BIOLOGY. *ELE-
MENTARY SCHOOL SCIENCE. *SCIENCE ACTIVITIES.
*TEACHING GUIDES. EDUCATIONAL SERVICES INC..
ELEMENTARY SCIENCE STUDY. INSTRUCTION.
INSTRUCTIONAL MATERIALS. RESOURCE
MATERIALS. SCIENCE COURSE IMPROVEMENT
PROJECT. SCIENCE UNITS.

ED 020 109
BERGER, CARL MONTGOMERY, MARSHALL
POSITION AND MOTION. A SCIENCE UNIT FOR THE
UPPER ELEMENTARY GRADES. STUDENT MANUAL.
CALIFORNIA UNIV., BERKELEY, SCI. CURRIC. IMPR.
STUDY
PUB DATE SEP 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM DEVELOPMENT.
*ELEMENTARY SCHOOL SCIENCE.
*INSTRUCTIONAL MATERIALS. *MOTION.
*PHYSICAL SCIENCES. *SCIENCE ACTIVITIES.
NATIONAL SCIENCE FOUNDATION. SCIENCE
COURSE IMPROVEMENT PROJECT. SCIENCE UNITS.

ED 020 110
BERGER, CARL MONTGOMERY, MARSHALL
POSITION AND MOTION. A SCIENCE UNIT FOR THE
UPPER ELEMENTARY GRADES. TEACHER'S GUIDE.
CALIFORNIA UNIV., BERKELEY, SCI. CURRIC. IMPR.
STUDY
PUB DATE SEP 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM DEVELOPMENT,
*ELEMENTARY SCHOOL SCIENCE. *INSTRUCTION,
*MOTION. *PHYSICAL SCIENCES. *SCIENCE UNITS.
*TEACHING GUIDES, DISCOVERY LEARNING,
NATIONAL SCIENCE FOUNDATION. SCIENCE
COURSE IMPROVEMENT PROJECT. SCIENCE
CURRICULUM IMPROVEMENT STUDY. SCIENCE
EQUIPMENT.

ED 020 111
BATTERIES AND BULBS. BOOK 3, CIRCUITS II.
TEACHER'S GUIDE.
ELEMENTARY SCIENCE STUDY, NEWTON, MASS
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BATTERIES. *CIRCUITS,
*ELECTRICITY. *ELEMENTARY SCHOOL SCIENCE.
*PHYSICAL SCIENCES. *SECONDARY SCHOOL
SCIENCE. *TEACHING GUIDES, EDUCATIONAL SER-
VICES INCORPORATED, INSTRUCTION, NATIONAL
SCIENCE FOUNDATION, SCIENCE ACTIVITIES.

ED 020 112
DAVIS, JOSEPH AND OTHERS
ENERGY. A SCIENCE UNIT FOR THE UPPER ELE-
MENTARY GRADES. TEACHER'S GUIDE.
CALIFORNIA UNIV., BERKELEY, SCI. CURRIC. IMPR.
STUDY
PUB DATE SEP 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE,
*ENERGY. *INSTRUCTION. *PHYSICAL SCIENCES,
*SCIENCE ACTIVITIES. *TEACHING GUIDES, GRADE
5. GRADE 6, NATIONAL SCIENCE FOUNDATION.

ED 020 113
DAVIS, JOSEPH AND OTHERS
ENERGY. A SCIENCE UNIT FOR THE UPPER ELE-
MENTARY GRADES, STUDENT MANUAL.
CALIFORNIA UNIV., BERKELEY, SCI. CURRIC. IMPR.
STUDY
PUB DATE SEP 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE,
*ENERGY. *INSTRUCTIONAL MATERIALS. *LABORA-
TORY MANUALS. *SCIENCE ACTIVITIES.
*TEXTBOOKS, GRADE 5, GRADE 6, HEAT. NATIONAL
SCIENCE FOUNDATION, PHYSICAL SCIENCES.
PHYSICS.

ED 020 116
ROE, ARNOLD
AN ADAPTIVE DECISION STRUCTURE FOR EDUCATIONAL SYSTEMS.
CALIFORNIA UNIV., LOS ANGELES
REPORT NUMBER 63-63
PUB DATE DEC 63
EDRS PRICE MF-\$0.75 HC-\$9.70 192P.

DESCRIPTORS— *COLLEGE SCIENCE. *COMPUTER ASSISTED INSTRUCTION. *ENGINEERING EDUCATION. *SYSTEMS ANALYSIS. CURRICULUM PLANNING. EDUCATIONAL PLANNING. EDUCATIONAL PROGRAMS. TEACHING MACHINES.

ED 020 117
HARVARD PROJECT PHYSICS PROGRESS REPORT.
HARVARD UNIV., CAMBRIDGE, MASS.
PUB DATE 67
EDRS PRICE MF-\$0.50 HC-\$3.10 60P.

DESCRIPTORS— *COURSE DESCRIPTIONS. *CURRICULUM. *CURRICULUM DEVELOPMENT. *PHYSICAL SCIENCES. *PHYSICS. *SECONDARY SCHOOL SCIENCE. CARNEGIE CORPORATION. COURSE CONTENT. EDUCATIONAL OBJECTIVES. EVALUATION. FILMS. HARVARD PROJECT PHYSICS. INSTRUCTIONAL MATERIALS. NATIONAL SCIENCE FOUNDATION. NEWSLETTERS. PROGRAMED INSTRUCTION. SCIENCE COURSES. SLOAN FOUNDATION. TEACHER EDUCATION. TESTS.

ED 020 118
MEASUREMENT AND PRECISION. EXPERIMENTAL VERSION.
HARVARD UNIV., CAMBRIDGE, MASS.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS. *MATHEMATICS. *MEASUREMENT. *PHYSICS. *PROGRAMED INSTRUCTION. *PROGRAMED MATERIALS. *SECONDARY SCHOOL SCIENCE. CARNEGIE CORPORATION. HARVARD PROJECT PHYSICS. NATIONAL SCIENCE FOUNDATION. SLOAN FOUNDATION. TEXTBOOKS. UNITED STATES OFFICE OF EDUCATION.

ED 020 121
BONE PICTURE BOOK. A BOOK FOR STUDENTS USING THE ESS UNIT BONES.
ELEMENTARY SCIENCE STUDY. NEWTON, MASS.
PUB DATE 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ANATOMY. *BIOLOGY. *ELEMENTARY SCHOOL SCIENCE. *INSTRUCTIONAL MATERIALS. *SCIENCE COURSE IMPROVEMENT PROJECT. ELEMENTARY SCIENCE STUDY EVOLUTION.

ED 020 122
KNAPP, R.H. GOODRICH, H.B.
ORIGINS OF AMERICAN SCIENTISTS.
PUB DATE 52
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE INFLUENCE. *COLLEGE SCIENCE. *GRADUATE STUDY. *HIGHER EDUCATION. *NATURAL SCIENCES. *SCIENTISTS. *UNDERGRADUATE STUDY. CAREER CHOICE. CAREERS. SCIENCES. TEACHER CHARACTERISTICS. TECHNOLOGY.

ED 020 123
ANDERSEN, HANS O.
AN ANALYSIS OF A METHOD FOR IMPROVING PROBLEM-SOLVING SKILLS POSSESSED BY COLLEGE STUDENTS PREPARING TO PURSUE SCIENCE TEACHING AS A PROFESSION.
INDIANA UNIV., BLOOMINGTON
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DOCTORAL THESES. *INSTRUCTION. *PROBLEM SOLVING. *SECONDARY SCHOOL SCIENCE. *TEACHER EDUCATION. *TEACHING TECHNIQUES. COLLEGE SCIENCE. INDIANA UNIVERSITY. WATSON GLASER CRITICAL THINKING APPRAISAL.

ED 020 124
BARNES, LEHMAN WILDER, JR.
THE NATURE AND EXTENT OF LABORATORY INSTRUCTION IN SELECTED MODERN HIGH SCHOOL BIOLOGY CLASSES.
TEXAS UNIV., AUSTIN
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY. *COMPARATIVE ANALYSIS. *INSTRUCTION. *LABORATORIES. *SECONDARY SCHOOL SCIENCE. *TEACHING METHODS. BIOLOGICAL SCIENCES CURRICULUM STUDY. DOCTORAL THESES. EVALUATION. PROCESSES OF SCIENCE TEST. SCIENCE ACTIVITIES. SCIENCE FACILITIES.

ED 020 125

KOCHENDORFER, LEONARD HJALMAR

A COMPARATIVE STUDY OF THE CLASSROOM PRACTICES AND TEACHING RATIONALE OF HIGH SCHOOL BIOLOGY TEACHERS USING DIFFERENT CURRICULUM MATERIALS.

TEXAS UNIV., AUSTIN

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *EVALUATION, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEACHER CHARACTERISTICS, BIOLOGICAL SCIENCES CURRICULUM STUDY, BIOLOGY CLASSROOM ACTIVITY CHECKLIST, DOCTORAL THESES, TEACHER EVALUATION.

ED 020 127

ALDEN, JOHN D.

ENGINEERING MANPOWER BULLETIN NUMBER 9. ENGINEERING MANPOWER COMMISSION, NEW YORK, N.Y.

PUB DATE DEC 67

EDRS PRICE MF-\$0.25 HC-\$0.30 4P.

DESCRIPTORS— *EMPLOYMENT STATISTICS, *ENGINEERING, *MANPOWER NEEDS, *MANPOWER UTILIZATION, *PHYSICAL SCIENCES, *SCIENTIFIC MANPOWER, *SCIENTIFIC PERSONNEL, ENGINEERS, OCCUPATIONS, SCIENTIFIC RESEARCH, SCIENTISTS.

ED 020 128

COMPUTER SCIENCES IN ELECTRICAL ENGINEERING.

COMMISSION ON ENGINEERING EDUC., WASHINGTON, D.C.

PUB DATE SEP 67

EDRS PRICE MF-\$0.25 HC-\$1.95 37P.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, *ENGINEERING EDUCATION, *PHYSICAL SCIENCES, ASSOCIATION FOR COMPUTING MACHINERY, BIBLIOGRAPHIES, COMPUTER ORIENTED PROGRAMS, ELECTRONICS, INFORMATION SCIENCE, MATHEMATICAL ASSOCIATION OF AMERICA, PHYSICS, UNDERGRADUATE STUDY.

ED 020 129

RYAN, ARTHUR J.

TEACHER'S GUIDE TO OUTDOOR EDUCATION. UNION COUNTY OUTDOOR EDUCATION CENTER REPORT NUMBER DPSC-66-1161 LINDEN BOARD OF EDUCATION, N.J.

EDRS PRICE MF-\$0.50 HC-\$5.75 113P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL OBJECTIVES, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *OUTDOOR EDUCATION, ART, BIBLIOGRAPHIES, *BIOLOGY, CONSERVATION EDUCATION, EARTH SCIENCE, ELEMENTARY AND SECONDARY EDUCATION ACT (TITLE 3), HEALTH EDUCATION, LANGUAGE ARTS, MATHEMATICS, MUSIC, SOCIAL STUDIES, TEACHING GUIDES, UNITED STATES OFFICE OF HEALTH EDUCATION AND WELFARE.

ED 020 130

REVIEWS OF DATA ON SCIENCE RESOURCES.

NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

REPORT NUMBER NSF-66-27

PUB DATE AUG 66

EDRS PRICE MF-\$0.25 HC-\$1.10 20P.

DESCRIPTORS— *EMPLOYMENT STATISTICS, *ENGINEERS, *FINANCIAL SUPPORT, *PHYSICAL SCIENCES, *SCIENTIFIC MANPOWER, *SCIENTIFIC RESEARCH, *SCIENTISTS, FEDERAL AID, FEDERAL GOVERNMENT, GRADUATE STUDY, MEDICAL SCHOOLS, NATIONAL SCIENCE FOUNDATION, UNDERGRADUATE STUDY.

ED 020 131

CAREY, RUSSELL L.

RELATIONSHIP BETWEEN LEVELS OF MATURITY AND LEVELS OF UNDERSTANDING OF SELECTED CONCEPTS OF THE PARTICLE NATURE OF MATTER. TECHNICAL REPORT NO. 36.

WISCONSIN UNIV., MADISON

REPORT NUMBER BR-5-0216

PUB DATE JAN 68

CONTRACT OEC-5-10-154

EDRS PRICE MF-\$0.50 HC-\$4.20 82P.

DESCRIPTORS— *CHEMISTRY, *COGNITIVE PROCESSES, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SCIENTIFIC CONCEPTS, BIBLIOGRAPHIES, GENERAL SCIENCE, INSTRUCTION, LEARNING.

ED 020 132
KLINGE, PAUL
CAREERS IN BIOLOGY EDUCATION.
NATIONAL ASSN. OF BIOLOGY TEACHERS
PUB DATE APR 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY. *CAREER OPPORTUNITIES. *CAREERS. COLLEGE SCIENCE. ELEMENTARY SCHOOL SCIENCE. INTERNATIONAL EDUCATION. MUSEUMS. OUTDOOR EDUCATION. SCIENCE CAREERS. SCIENCE EDUCATION. SECONDARY SCHOOL SCIENCE. TEACHER AIDES.

ED 020 134
HOFFART, ERVIN H.
THE ROLE OF HIGH SCHOOL TEACHERS IN DISSEMINATING NEW ELEMENTARY SCIENCE CURRICULUMS. FINAL REPORT.
EDUCATION DEVELOPMENT CENTER, NEWTON, MASS.
REPORT NUMBER BR-6-1115
PUB DATE MAR 68
GRANT OEG-1-7-061115-0362
EDRS PRICE MF-\$0.25 HC-\$1.75 33P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT. *INSERVICE TEACHER EDUCATION. *PHYSICS. *SCIENCE COURSE IMPROVEMENT PROJECT. *SECONDARY SCHOOL SCIENCE. *STUDENT TEACHERS. *TEACHER EDUCATION. *TEACHER WORKSHOPS. ELEMENTARY SCHOOL SCIENCE. ELEMENTARY SCIENCE STUDY. HARVARD PROJECT PHYSICS. INFORMATION DISSEMINATION. INTERMEDIATE SCIENCE CURRICULUM STUDY. INTRODUCTORY PHYSICAL SCIENCE. PHYSICAL SCIENCE STUDY COMMITTEE.

ED 020 135
FOSS, PHILLIP O.
EDUCATION IN NATURAL RESOURCES, PROCEEDINGS AND RELATED PAPERS FROM A SEMINAR SERIES AT COLORADO STATE UNIVERSITY 1963-64.
COLORADO STATE UNIV., FT. COLLINS
PUB DATE 64
EDRS PRICE MF-\$0.50 HC-\$5.10 100P.

DESCRIPTORS— *CONSERVATION EDUCATION. *CURRICULUM. *EDUCATIONAL PROGRAMS. *HIGHER EDUCATION. *NATURAL RESOURCES. CONFERENCE REPORTS. FEDERAL GOVERNMENT. GRADUATE STUDY. SCIENCES. SOCIAL SCIENCES. STATE FEDERAL SUPPORT. UNDERGRADUATE STUDY.

ED 020 136
GWINN, HERBERT D.
AN ANALYSIS OF STATE ADOPTED TEXTBOOKS RELATIVE TO CONSERVATION EDUCATION INFORMATION.
CALIFORNIA STATE DEPT. OF EDUCATION, SACRAMENTO
PUB DATE JUN 67
EDRS PRICE MF-\$0.50 HC-\$3.45 67P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES. *CONSERVATION EDUCATION. *RESOURCE MATERIALS. *TEXTBOOK EVALUATION. *TEXTBOOKS. *BIBLIOGRAPHIES. BIOLOGY. EARTH SCIENCE. ELEMENTARY SCHOOL SCIENCE. GENERAL SCIENCE. INSTRUCTIONAL MATERIALS. PHYSICAL SCIENCES. SECONDARY SCHOOL SCIENCE.

ED 020 137
BONES, TEACHER'S GUIDE.
ELEMENTARY SCIENCE STUDY, NEWTON, MASS.
PUB DATE 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY. *ELEMENTARY SCHOOL SCIENCE. *TEACHING GUIDES. ANATOMY. EVOLUTION. GRADE 4. NATIONAL SCIENCE FOUNDATION. RESOURCE MATERIALS.

ED 020 138
REPORT TO THE NATIONAL SCIENCE FOUNDATION ON THE SUBSTRUCTURE SEARCH DEMONSTRATION CONDUCTED IN NEW YORK CITY SEPTEMBER 1966.
AMERICAN CHEMICAL SOC., COLUMBUS, OHIO
PUB DATE 66
EDRS PRICE MF-\$0.50 HC-\$5.05 99P.

DESCRIPTORS— *CHEMISTRY. *COMPUTER ORIENTED PROGRAMS. *INFORMATION CENTERS. *INFORMATION RETRIEVAL. *INFORMATION SCIENCE. *INFORMATION SERVICES. *INFORMATION STORAGE. AMERICAN CHEMICAL SOCIETY. CHEMICAL ABSTRACTS SERVICE. NATIONAL SCIENCE FOUNDATION. SUBSTRUCTURE SEARCH SYSTEM.

ED 020 140
SKINNER, B.F.
TEACHING SCIENCE IN HIGH SCHOOL—WHAT IS WRONG. PAPER PRESENTED AT THE AAAS MEETING, DECEMBER 29, 1967, NEW YORK.
PUB DATE 67
EDRS PRICE MF-\$0.25 HC-\$0.65 11P.

DESCRIPTORS— *DISCOVERY LEARNING, *INSTRUCTION, *LEARNING, *PROGRAMED INSTRUCTION, *REINFORCEMENT, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, AUDIOVISUAL AIDS, EDUCATIONAL PROBLEMS, SCIENTIFIC MANPOWER.

ED 020 139

BAEZ, ALBERT V.

ACTIVITIES OF THE DIVISION OF SCIENCE TEACHING OF UNESCO. PAPER PRESENTED AT THE AAAS MEETING, DECEMBER 26, 1967, NEW YORK.

PUB DATE 67

EDRS PRICE MF-\$0.25 HC-\$0.85 15P.

DESCRIPTORS— *CURRICULUM, *EDUCATIONAL PROGRAMS, *IMPROVEMENT PROGRAMS, *INTERNATIONAL EDUCATION, *INTERNATIONAL ORGANIZATIONS, *PROGRAM DESCRIPTIONS, *SCIENCE EDUCATION, AFRICA, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, ASIA, BIOLOGY, CHEMISTRY, COLLEGE SCIENCE, DEVELOPING NATIONS, INSTRUCTIONAL MATERIALS, LATIN AMERICA, MATHEMATICS, PHYSICS, SECONDARY SCHOOL SCIENCE, TEACHER EDUCATION, UNITED NATIONS, UNITED NATIONS DEVELOPMENT PROGRAM.

ED 020 141

UNDERGRADUATE EDUCATION IN RENEWABLE NATURAL RESOURCES, AN ASSESSMENT.

NATIONAL ACADEMY OF SCIENCES—NATIONAL RES. COUNCIL.

REPORT NUMBER PUB—1537

PUB DATE 67

EDRS PRICE MF-\$0.25 HC-\$1.75 33P.

DESCRIPTORS— *CURRICULUM, *EDUCATIONAL PROGRAMS, *HIGHER EDUCATION, *NATURAL RESOURCES, *PROGRAM DESCRIPTIONS, *UNDERGRADUATE STUDY, ANIMAL SCIENCE, COLLEGE SCIENCE, COMMISSION ON EDUCATION IN AGRICULTURE AND NATURAL RESOURCES, CURRICULUM PLANNING, CURRICULUM PROBLEMS, MATHEMATICS, NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, PLANT SCIENCE, SCIENCE EDUCATION, SOCIAL SCIENCE, SOIL SCIENCE.

ED 020 142

UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES FOR STUDENTS IN AGRICULTURE AND NATURAL RESOURCES, PROCEEDINGS OF A CONFERENCE.

NATIONAL ACADEMY OF SCIENCES—NATIONAL RES. COUNCIL.

REPORT NUMBER PUB 1495

PUB DATE 67

EDRS PRICE MF-\$0.50 HC-\$4.85 95P.

DESCRIPTORS— *AGRICULTURAL EDUCATION, *AGRICULTURAL TRENDS, *AGRICULTURE, *BIOLOGICAL SCIENCES, *COLLEGE SCIENCE, *CONFERENCE REPORTS, *CURRICULUM, *EDUCATIONAL PROGRAMS, *INSTRUCTION, *UNDERGRADUATE STUDY, ANIMAL SCIENCE, COMMISSION ON EDUCATION IN AGRICULTURE AND NATURAL RESOURCES, EDUCATIONAL CHANGE, MANPOWER NEEDS, NATURAL RESOURCES, PLANT SCIENCE, RURAL AREAS, SCIENCE EDUCATION, SCIENTIFIC RESEARCH, SOCIAL SCIENCE, SOIL SCIENCE.

ED 020 144

STEPS TOWARD SCIENTIFIC LITERACY, A REPORT OF COLLEGE—LEVEL CONFERENCES ON SCIENCE FOR NONSCIENCE MAJORS.

NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.

PUB DATE 68

EDRS PRICE MF-\$0.25 HC-\$1.40 26P.

DESCRIPTORS— *BEHAVIORAL OBJECTIVES, *BIOLOGY, *COLLEGE SCIENCE, *CONFERENCE REPORTS, *EDUCATIONAL OBJECTIVES, *EDUCATIONAL PROGRAMS, *GENERAL EDUCATION, *UNDERGRADUATE STUDY, CHEMISTRY, COURSE DESCRIPTIONS, ELEMENTARY SCHOOL SCIENCE, HIGHER EDUCATION, PHYSICAL SCIENCES, SCIENCE EDUCATION, TEACHER EDUCATION.

ED 020 145

BRAINARD, ROBERT W.

SCIENCE POLICY BULLETIN NUMBER 4.

BATTELLE MEMORIAL INST., COLUMBUS, OHIO

PUB DATE APR 68

EDRS PRICE MF-\$0.50 HC-\$3.50 68P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *BIBLIOGRAPHIES, *FINANCIAL SUPPORT, *INDUSTRY, *NATIONAL PROGRAMS, *NATURAL RESOURCES, *RESOURCE MATERIALS, *SCIENCES, *SCIENTIFIC RESEARCH, TECHNOLOGY, AGRICULTURE, BATTELLE MEMORIAL INSTITUTE, BIOLOGY, CONFERENCE REPORTS, DEVELOPING NATIONS, ENGINEERING, FEDERAL LEGISLATION, GOVERNMENT ROLE, HIGHER EDUCATION, INFORMATION SCIENCE, INTERNATIONAL PROGRAMS, NATIONAL SCIENCE FOUNDATION, NEWSLETTERS, OCEANOLOGY, PHYSICS, SOCIO-ECONOMIC INFLUENCES, TECHNOLOGICAL ADVANCEMENT.

ED 020 146
BIBLIOGRAPHY OF SCIENCE COURSES OF STUDY
AND TEXTBOOKS GRADES K-9 1968.
NATIONAL SCIENCE TEACHERS ASSN.,
WASHINGTON, D.C.
REPORT NUMBER 471-14298
PUB DATE 68
EDRS PRICE MF-\$0.50 HC NOT
AVAILABLE FROM EDRS. 63P.

DESCRIPTORS— *BIBLIOGRAPHIES, *BIOLOGY,
*CHEMISTRY, *EARTH SCIENCE, *ELEMENTARY
SCHOOL SCIENCE, *GENERAL SCIENCE,
*INSTRUCTIONAL MATERIALS, *JUNIOR HIGH
SCHOOLS, *PHYSICAL SCIENCES, *RESOURCE
MATERIALS, *SECONDARY SCHOOL SCIENCE,
*TEXTBOOKS, CONSERVATION EDUCATION,
CURRICULUM GUIDES, LABORATORY MANUALS,
OUTDOOR EDUCATION, PROGRAMED MATERIALS,
SCIENCE COURSE IMPROVEMENT PROJECT,
SCIENCE UNITS, TEACHING GUIDES.

ED 020 148
TAYLOR, CALVIN W. AND OTHERS
BIOGRAPHICAL INFORMATION AND THE PRE-
DICTION OF MULTIPLE CRITERIA OF SUCCESS IN
SCIENCE.
NATIONAL AERONAUTICS AND SPACE ADMIN.,
WASHINGTON, D.C.
REPORT NUMBER NASW-105
PUB DATE FEB 66
EDRS PRICE MF-\$0.50 HC-\$6.25 123P.

DESCRIPTORS— *COLLEGE STUDENTS,
*CREATIVITY, *SCIENTIFIC MANPOWER, *TALENT
IDENTIFICATION, CAREERS, CREATIVITY CHECK
LIST, CREATIVITY RATING SCALE, MULTIPLE
CHOICE TESTS, NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION, PREDICTION,
RESEARCH, RESEARCH METHODOLOGY,
SECONDARY SCHOOL STUDENTS.

ED 020 149
RIESER, LEONARD M.
DEVELOPMENT PREPARATORY STUDY OF THE
INTRODUCTION OF NEW SCIENCE CURRICULAR
MATERIALS AND PROCEDURES INTO THE ELE-
MENTARY GRADES OF TWO RELATED SCHOOL
DISTRICTS — HANOVER, NEW HAMPSHIRE
SUPERVISORY UNION NUMBER 22 AND NORWICH,
VERMONT SCHOOL DISTRICT.
DARTMOUTH COLL., HANOVER, N.H.
REPORT NUMBER BR-5-8353
PUB DATE APR 68
CONTRACT OEC-6-10-296
PRICE MF-\$0.25 HC-\$1.70 32P.

DESCRIPTORS— *CURRICULUM, *ELEMENTARY
SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS,
*SCIENCE COURSE IMPROVEMENT PROJECT,
CURRICULUM EVALUATION, CURRICULUM PLAN-
NING, EDUCATIONAL PROGRAMS, INSERVICE
TEACHER EDUCATION.

ED 020 150
CRAIG, GERALD S.
SCIENCE IN THE ELEMENTARY SCHOOLS.
AMERICAN EDUCATIONAL RESEARCH ASSN.,
WASHINGTON, D.C.
PUB DATE APR 57
EDRS PRICE MF-\$0.25 HC NOT
AVAILABLE FROM EDRS. 36P.

DESCRIPTORS— *EDUCATIONAL OBJECTIVES, *ELE-
MENTARY SCHOOL SCIENCE, *SCIENCE
EDUCATION, CONSERVATION, CRITICAL THINKING,
CURRICULUM PLANNING, EVALUATION, HEALTH,
LEARNING, PROGRAM CONTENT, RESEARCH
REVIEWS (PUBLICATIONS), SAFETY, SCIENCE
ACTIVITIES, SLOW LEARNERS, TEACHING
METHODS.

ED 020 151
BARNARD, J. DARRELL
TEACHING HIGH-SCHOOL SCIENCE.
AMERICAN EDUCATIONAL RESEARCH ASSN.,
WASHINGTON, D.C.
PUB DATE APR 56
EDRS PRICE MF-\$0.25 HC NOT
AVAILABLE FROM EDRS. 36P.

DESCRIPTORS— *EDUCATIONAL OBJECTIVES,
*EVALUATION, *INSTRUCTION, AMERICAN
EDUCATIONAL RESEARCH ASSOCIATION,
AUDIOVISUAL AIDS, CRITICAL THINKING,
CURRICULUM PLANNING, INSTRUCTIONAL
MATERIALS, LEARNING, NATIONAL EDUCATION
ASSOCIATION, PROBLEM SOLVING, RESEARCH
REVIEWS (PUBLICATIONS), SCIENCE EDUCATION,
SECONDARY SCHOOL SCIENCE, TEACHER
EDUCATION, TEACHER QUALIFICATIONS,
TEACHING METHODS.

ED 020 152
STAUSS, NYLES G.
MATERIALS USED IN TEACHING AND EVALUATING
THE CONCEPTS RELATED TO THE BIOLOGICAL
CELL IN GRADES 2-6, PRACTICAL, PAPER NO. 2.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE JAN 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-\$0.25 HC-\$2.25 43P.

DESCRIPTORS— *BIOLOGY, *COGNITIVE PROCESSES, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, *SCIENTIFIC CONCEPTS, AUDIOVISUAL AIDS, CYTOLOGY, INSTRUCTIONAL MATERIALS MULTIPLE CHOICE TESTS, OBJECTIVE TESTS, TESTS.

ED 020 153

MAKI, DENNIS R.

A FORECASTING MODEL OF MANPOWER REQUIREMENTS IN THE HEALTH OCCUPATIONS.

IOWA STATE UNIV. OF SCIENCE AND TECH., AMES

PUB DATE 67

EDRS PRICE MF-\$0.75 HC-\$7.80 154P.

DESCRIPTORS— *ECONOMICS, *EMPLOYMENT PROJECTIONS, *HEALTH EDUCATION, *HEALTH OCCUPATIONS, *HEALTH SERVICES, *RESEARCH, MANPOWER NEEDS, MANPOWER UTILIZATION, PARAMEDICAL OCCUPATIONS, PREDICTION, RESEARCH METHODOLOGY, RESEARCH OPPORTUNITIES.

ED 020 335

KANTASEWI, NIPHON

EXPERIMENTS IN THE USE OF PROGRAMED MATERIALS IN TEACHING AN INTRODUCTORY COURSE IN THE BIOLOGICAL SCIENCES AT THE COLLEGE LEVEL.

PUB DATE 64

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *COLLEGE INSTRUCTION, *COMPARATIVE ANALYSIS, *TEACHING METHODS, COLLEGE STUDENTS, KNOWLEDGE LEVEL, LECTURE, MULTIMEDIA INSTRUCTION, POST TESTING, PRETESTING, PROGRAMED INSTRUCTION, PROGRAMED TEXTS.

ED 020 359

SCIENTIFIC AND TECHNICAL MANPOWER RESOURCES, SUMMARY INFORMATION ON EMPLOYMENT, CHARACTERISTICS, SUPPLY, AND TRAINING. NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

REPORT NUMBER NSF-64-28

PUB DATE 65

EDRS PRICE MF-\$0.75 HC NOT AVAILABLE FROM EDRS. 196P.

DESCRIPTORS— *EMPLOYMENT PATTERNS, *ENGINEERS, *LABOR MARKET, *SCIENTISTS, *SUBPROFESSIONALS, EDUCATIONAL

BACKGROUND, EMPLOYMENT EXPERIENCE, EMPLOYMENT OPPORTUNITIES, EMPLOYMENT TRENDS, INDIVIDUAL CHARACTERISTICS, MANPOWER UTILIZATION, SALARIES.

ED 020 749

RUSSELL, MARTIN FREEMAN, ROBERT R.

COMPUTER-AIDED INDEXING OF A SCIENTIFIC ABSTRACTS JOURNAL BY THE UDC WITH UNIDEK—A CASE STUDY.

AMERICAN INST. OF PHYSICS, NEW YORK, N.Y.

REPORT NUMBER AIP/UDC-4

PUB DATE 1 APR 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CLASSIFICATION, *COMPUTERS, *INDEXES, *INDEXING, *PERIODICALS, ABSTRACTS, EARTH SCIENCE, INFORMATION RETRIEVAL, UDC, UNIDEK, UNIVERSAL DECIMAL CLASSIFICATION, VOCABULARY.

ED 020 830

YEATER, L.W.

A FIELD EXPERIENCE—A WHY, A HOW.

MARINE SCIENCE PROJECT, BEAUFORT, N.C.

REPORT NUMBER DPSC-67-4274

PUB DATE 67

EDRS PRICE MF-\$0.25 HC-\$0.75 13P.

DESCRIPTORS— *FIELD TRIPS, *MARINE BIOLOGY, *OCEANOLOGY, *OUTDOOR EDUCATION, *SCIENCE CONSULTANTS, BIOLOGY INSTRUCTIONAL AIDS, INSTRUCTIONAL MATERIALS, LEARNING THEORIES, MOTIVATION TECHNIQUES, RESOURCE MATERIALS, SEQUENTIAL LEARNING, SLOW LEARNERS, STUDENT INTERESTS, TEACHING METHODS, DISCOVERY PROCESSES, EDUCATIONAL PLANNING.

ED 020 882

BEHRINGER, MARJORIE PERRIN

THE DEVELOPMENT OF DIFFERENTIATED CURRICULA FOR ABILITY GROUPED BIOLOGY CLASSES, INCLUDING TEACHER TRAINING AND PROGRAM EVALUATION.

TEXAS UNIV., AUSTIN

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ABILITY GROUPING, *BIOLOGY, *CURRICULUM DEVELOPMENT, *SECONDARY SCHOOL SCIENCE, ACADEMIC ACHIEVEMENT, BIOLOGICAL SCIENCES CURRICULUM STUDY, COOPERATIVE COLLEGE—SCHOOL PROGRAM, DOCTORIAL THESES, EVALUATION, INSERVICE

TEACHER EDUCATION, INSTRUCTION, NATIONAL SCIENCE FOUNDATION, PROCESSES OF SCIENCE TEST, PROGRAM EVALUATION, SAN ANTONIO, TEXAS.

ED 020 883

DAY, MYRTLE V.

A TEACHER'S HANDBOOK OF RESOURCES FOR THE TEACHING OF HEALTH K-6.

NEBRASKA STATE DEPT. OF EDUCATION, LINCOLN

PUB DATE 66

EDRS PRICE MF-\$0.50 HC-\$5.05 99P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *HEALTH EDUCATION, *RESOURCE UNITS, *TEACHING GUIDES, FIRST AID, INTERMEDIATE GRADES, KINDERGARTEN, MENTAL HEALTH, NEBRASKA, RESOURCE MATERIALS, SAFETY, SCIENCE UNITS.

ED 020 884

SCIENCE EQUIPMENT IN THE ELEMENTARY SCHOOL.

COLORADO UNIV., BOULDER, ELEM. SCI. ADVISORY CENTER

PUB DATE MAR 67

CONTRACT OEC-6-10-169

EDRS PRICE MF-\$0.25 HC-\$2.10 40P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *SCIENCE EQUIPMENT, *SCIENCE MATERIALS, *TEACHING GUIDES, PHYSICAL SCIENCES, SCIENCE ACTIVITIES.

ED 020 898

COLE, RICHARD C.

SCIENCE INTERPRETIVE PROGRAM—SPERMACE TI COVE INTERPRETIVE CENTER.

MIDDLETOWN TOWNSHIP BOARD OF EDUC., HIGHLANDS, N.J.

PUB DATE NOV 67

EDRS PRICE MF-\$0.25 HC-\$0.65 11P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *OUTDOOR EDUCATION, *PROGRAM DESCRIPTIONS, BIOLOGY, CONSERVATION EDUCATION, ECOLOGY, EDUCATIONAL OBJECTIVES, ELEMENTARY AND SECONDARY EDUCATION ACT, GEOLOGY, GRADE 4, GRADE 5, GRADE 6, MIDDLETOWN, NEW JERSEY, OCEANOLOGY, SCIENCE ACTIVITIES.

ED 020 899

WEICHINGER, THEODORE, JR.

THE DETERMINATION OF SUITABLE LABORATORY EXPERIENCES FOR A PHYSICAL SCIENCE COURSE FOR PROSPECTIVE ELEMENTARY SCHOOL TEACHERS.

COLORADO STATE COLLEGE, GREELEY

PUB DATE 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SCIENCE TEACHERS, *TEACHER EDUCATION, *UNDERGRADUATE STUDY, CHEMISTRY, COLORADO STATE COLLEGE, DOCTORAL THESES, LABORATORY EXPERIMENTS, LABORATORY PROCEDURES, SCIENCE COURSES.

ED 020 900

ILLUSTRATIVE LESSON MATERIALS. A SUPPLEMENT TO SCIENCE FRAMEWORK FOR CALIFORNIA PUBLIC SCHOOLS. PRELIMINARY.

CALIFORNIA STATE DEPT. OF EDUCATION, SACRAMENTO

PUB DATE 68

EDRS PRICE MF-\$0.50 HC-\$4.10 80P.

DESCRIPTORS— *CURRICULUM GUIDES, *ELEMENTARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, SECONDARY SCHOOL SCIENCE, BIOLOGY, CALIFORNIA STATE BOARD OF EDUCATION, ELEMENTARY AND SECONDARY EDUCATION ACT, HEALTH EDUCATION, PHYSICAL SCIENCES, RESOURCE MATERIALS, SCIENCE EDUCATION, SCIENTIFIC CONCEPTS, TITLE 5.

ED 020 901

INDUSTRIAL RADIOGRAPHY INSTRUCTOR'S GUIDE.

OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

REPORT NUMBER OE-84034

ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.

PUB DATE MAR 68

EDRS PRICE MF-\$0.50 HC NOT AVAILABLE FROM EDRS. 62P.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS, *NUCLEAR PHYSICS, *TEACHING GUIDES, ADULT EDUCATION, CHEMISTRY, EDUCATIONAL PROGRAMS, LABORATORY MANUALS, PHYSICS, TECHNOLOGY, UNITED STATES ATOMIC ENERGY COMMISSION, UNITED STATES OFFICE OF EDUCATION, VOCATIONAL EDUCATION.

ED 020 902
INDUSTRIAL RADIOGRAPHY STUDENT GUIDE AND
LABORATORY EXERCISES.
REPORT NUMBER OE-84035
ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.
PUB DATE MAR 68
EDRS PRICE MF-\$0.50 HC-NOT
AVAILABLE FROM EDRS. 70P.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS.
*LABORATORY MANUALS. *NUCLEAR PHYSICS.
*TEACHING GUIDES. ADULT EDUCATION.
CHEMISTRY, EDUCATIONAL PROGRAMS, PHYSICS.
RADIOISOTOPES, SCIENCE ACTIVITIES, TECHNOL-
OGY, UNITED STATES ATOMIC ENERGY COMMIS-
SION, UNITED STATES OFFICE OF EDUCATION,
VOCATIONAL EDUCATION.

ED 020 903
LERNER, RITAG.
DEVELOPMENT OF MULTI-COORDINATE
VOCABULARY, PLASMA PHYSICS.
AMERICAN INST. OF PHYSICS, NEW YORK, N.Y.
PUB DATE MAR 68
EDRS PRICE MF-\$0.25 HC-\$0.75 13P.

DESCRIPTORS— *COLLEGE SCIENCE.
*INFORMATION RETRIEVAL, *INFORMATION
SCIENCE, *PHYSICS, *THESAURI, AMERICAN
INSTITUTE OF PHYSICS, GRADUATE STUDY,
NATIONAL SCIENCE FOUNDATION, SCIENTIFIC
RESEARCH, VOCABULARY.

ED 020 904
LERNER, RITAG.
DEVELOPMENT OF A MULTI-COORDINATE VOCABU-
LARY, CHEMICAL PHYSICS.
AMERICAN INST. OF PHYSICS, NEW YORK, N.Y.
PUB DATE MAR 68
EDRS PRICE MF-\$0.25 HC-\$1.30 24P.

DESCRIPTORS— *CHEMISTRY, *COLLEGE SCIENCE,
*INFORMATION RETRIEVAL, *INFORMATION
SCIENCE, *THESAURI, AMERICAN INSTITUTE OF
PHYSICS, GRADUATE STUDY, NATIONAL SCIENCE
FOUNDATION, PHYSICS, SCIENTIFIC RESEARCH,
VOCABULARY.

ED 020 905
INDEX OF SELECTED OUTDOOR RECREATION
LITERATURE.
DEPARTMENT OF THE INTERIOR, WASHINGTON,
D.C.
PUB DATE AUG 67
EDRS PRICE MF-\$0.75 HC-NOT
A LE FROM EDRS. 156P.

DESCRIPTORS— *BIBLIOGRAPHIES, *INDEXES
(LOCATORS), *NATURAL RESOURCES, *OUTDOOR
EDUCATION, ADULT EDUCATION, ANNOTATED
BIBLIOGRAPHIES, BIOLOGICAL SCIENCES, BUREAU
OF OUTDOOR RECREATION, CAMPING, COLLEGE
SCIENCE, CONSERVATION EDUCATION,
DEPARTMENT OF THE INTERIOR, ECOLOGY,
ELEMENTARY SCHOOL SCIENCE, FEDERAL LEGIS-
LATION, PERIODICALS, PHOTOGRAPHY,
RECREATION, RESOURCE MATERIALS, SECONDARY
SCHOOL SCIENCE.

ED 020 906
TRIEZENBERG, HENRY J.
TESTING FOR CONCEPTS OF ECOLOGICAL SYSTEMS.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE JAN 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-\$0.25 HC-\$1.40 26P.

DESCRIPTORS— *COGNITIVE TESTS, *ECOLOGY,
*ELEMENTARY SCHOOL SCIENCE, *SECONDARY
SCHOOL SCIENCE, *TESTS, BIOLOGICAL SCIENCES,
EVALUATION, MULTIPLE CHOICE TESTS, SCIENCE
CONCEPT LEARNING PROJECT, SCIENCE TESTS.

ED 020 907
HELGESON, STANLEY L.
LESSONS PLANS AND TESTS OF KNOWLEDGE,
COMPREHENSION, AND APPLICATION FOR IN-
STRUCTION IN CONCEPTS OF FORCE, GRADES 2-6.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE MAR 68
EDRS PRICE MF-\$0.25 HC-\$2.35 45P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE,
*FORCE, *INSTRUCTION, *PHYSICS, *TEACHING
GUIDES, ACADEMIC ACHIEVEMENT, COGNITIVE
PROCESSES, CONCEPT FORMATION, EVALUATION,
LEARNING, PHYSICAL SCIENCES, SCIENCE
CONCEPT LEARNING PROJECT, TESTS.

ED 020 908
VOELKER, ALAN M.
THE RELATIVE EFFECTIVENESS OF TWO METHODS
OF INSTRUCTION IN TEACHING THE CLASSIFI-
CATIONAL CONCEPTS OF PHYSICAL AND CHEMICAL
CHANGE TO ELEMENTARY SCHOOL CHILDREN.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE FEB 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-\$0.25 HC-\$2.35 45P.

DESCRIPTORS— *CHEMISTRY, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, CHEMISTRY, COGNITIVE DEVELOPMENT, CONCEPT TEACHING, SCIENCE CONCEPT LEARNING PROJECT, TEACHING TECHNIQUES.

ED 020 909

TRIEZENBERG, HENRY J.

THE USE OF AN ADVANCE ORGANIZER IN TEACHING SELECTED CONCEPTS OF ECOLOGICAL SYSTEMS.

WISCONSIN UNIV., MADISON

REPORT NUMBER BR-5-0216

PUB DATE FEB 68

CONTRACT OEC-5-10-154

EDRS PRICE MF-\$0.25 HC-\$2.65 51P.

DESCRIPTORS— *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, ACADEMIC ACHIEVEMENT, BIOLOGICAL SCIENCES, COGNITIVE DEVELOPMENT, COMPARATIVE ANALYSIS, ECOLOGY, GRADE 7, GRADE 9, RETENTION, SCIENCE CONCEPT LEARNING PROJECT, TEACHING TECHNIQUES, TELEVISED INSTRUCTION.

ED 020 910

HELGESON, STANLEY L.

THE RELATIONSHIPS BETWEEN CONCEPTS OF FORCE ATTAINED AND MATURITY AS INDICATED BY GRADE LEVELS.

WISCONSIN UNIV., MADISON

REPORT NUMBER BR-5-0216

PUB DATE MAR 68

CONTRACT OEC-5-10-154

EDRS PRICE MF-\$0.25 HC-\$2.85 55P.

DESCRIPTORS— *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *PHYSICAL SCIENCES, ACADEMIC ACHIEVEMENT, COGNITIVE PROCESSES, FORCE, PHYSICS, SCIENCE CONCEPT LEARNING PROJECT, SCIENTIFIC CONCEPTS.

ED 020 912

STAUSS, NYLES G.

AN INVESTIGATION INTO THE RELATIONSHIP BETWEEN CONCEPT ATTAINMENT AND LEVEL OF MATURITY.

WISCONSIN UNIV., MADISON

REPORT NUMBER BR-5-0216

PUB DATE FEB 68

CONTRACT OEC-5-10-154

EDRS PRICE MF-\$0.50 HC-\$3.95 77P.

DESCRIPTORS— *CELL THEORY, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, ACADEMIC ACHIEVEMENT, BIOLOGICAL SCIENCES, COGNITIVE TESTS, CURRICULUM PLANNING, SCIENCE CONCEPT LEARNING PROJECT, SCIENTIFIC CONCEPTS.

ED 020 913

HALL, THOMAS S.

SOURCE MATERIALS FOR GENERAL AND HUMAN BIOLOGY. FINAL REPORT.

WASHINGTON UNIV., ST LOUIS, MO., DEPT. OF BIOLOGY

REPORT NUMBER BR-5-1189

PUB DATE 27 MAY 68

CONTRACT OEC-6-10-242

EDRS PRICE MF-\$0.50 HC-\$5.00 98P.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *COLLEGE SCIENCE, *GENERAL EDUCATION, *INSTRUCTIONAL MATERIALS, CASE STUDIES (EDUCATION), CYTOLOGY, EVOLUTION, HEREDITY, INSTRUCTION, PHYSIOLOGY, TEACHING METHODS.

ED 020 914

BRAINARD, ROBERT W.

SCIENCE POLICY BULLETIN NUMBER 5.

BATTELLE MEMORIAL INST., COLUMBUS, OHIO

PUB DATE JUN 68

EDRS PRICE MF-\$0.25 HC-\$2.50 48P.

DESCRIPTORS— *BIBLIOGRAPHIES, *RESEARCH, *SCIENCES, *TECHNOLOGY, ANNOTATED BIBLIOGRAPHIES, CONFERENCE REPORTS, ENGINEERING, FEDERAL AID, FEDERAL GOVERNMENT, FINANCIAL SUPPORT, FOREIGN COUNTRIES, HIGHER EDUCATION, INDUSTRY, SCIENTIFIC MANPOWER, SOCIAL SCIENCES, SOCIOECONOMIC INFLUENCES.

ED 020 915

MARQUARDT, D.N.

SELECTED PAPERS FROM REGIONAL CONFERENCES 1966-67.

ADVISORY COUNCIL ON COLL. CHEMISTRY

REPORT NUMBER AC3-PUB-NO-35

PUB DATE MAY 68

EDRS PRICE MF-\$0.50 HC-\$4.20 82P.

DESCRIPTORS— *CHEMISTRY, *COLLEGE SCIENCE, *COMMUNITY COLLEGES, *CURRICULUM DEVELOPMENT, *UNDERGRADUATE STUDY, ADVISORY COUNCIL ON COLLEGE CHEMISTRY, CONFERENCES, INSTRUCTION, LABORATORY SAFETY, ORGANIC CHEMISTRY, SCIENCE ACTIVITIES, TEACHING TECHNIQUES.

ED 020 916
SCIENCE EDUCATION INFORMATION ANALYSIS
CENTER NEWSLETTER.
ERIC INFORM. ANAL. CEN. FOR SCI. EDUC.,
COLUMBUS, OHIO
PUB DATE APR 68
EDRS PRICE MF-\$0.25 HC-\$0.85 15P.

DESCRIPTORS— *CONSERVATION EDUCATION
*DIRECTORIES, *ELEMENTARY SCHOOL SCIENCE,
*OUTDOOR EDUCATION, *SECONDARY SCHOOL
SCIENCE, ART, BIOLOGICAL SCIENCES
CURRICULUM DEVELOPMENT, EARTH SCIENCES,
ECOLOGY, EDUCATIONAL PROGRAMS, HANDI-
CAPPED STUDENTS, LANGUAGE ARTS, MATHE-
MATICS EDUCATION, MUSIC, NATURAL RE-
SOURCE, NATURE CENTERS, NEWSLETTERS,
OCEANOLOGY, PHYSICAL EDUCATION, PHYSICAL
SCIENCES, PROGRAM DESCRIPTIONS, SCIENCE
EDUCATION INFORMATION ANALYSIS CENTER,
SOCIAL STUDIES.

ED 020 917
FOWLER, JOHN M.
PRODUCTION AND USE OF SINGLE CONCEPT FILMS
IN PHYSICS TEACHING.
PUB DATE SEP 67
EDRS PRICE MF-\$0.50 HC-\$5.90 116P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *COLLEGE
SCIENCE, *INSTRUCTIONAL FILMS, *INSTRUC-
TIONAL MATERIALS, *PHYSICS, BIBLIOGRAPHIES,
COMMISSION ON COLLEGE PHYSICS,
CONFERENCES, FILMS, PHOTOGRAPHY, PRO-
JECTION EQUIPMENT, SCIENCE EQUIPMENT,
SINGLE CONCEPT FILMS.

ED 020 918
GOLDBERG, STANLEY
THE EFFECTS OF NATIONAL SCIENTIFIC STYLE ON
THE UNDERSTANDING OF SCIENTIFIC IN-
NOVATION—SPECIAL RELATIVITY, A CASE
HISTORY. FINAL REPORT.
ANTIOCH COLL., YELLOW SPRINGS, OHIO
REPORT NUMBER BR-5-8280
PUB DATE 19 JUN 68
GRANT OEG-4-10-222
EDRS PRICE MF-\$0.75 HC-\$7.50 148P.

DESCRIPTORS— *CHANGE AGENTS, *PHYSICS,
*RELATIVITY, *SCIENTIFIC ENTERPRISE, EDU-
CATIONAL HISTORY, EINSTEIN, ENGLAND, FRANCE,
GERMANY, INNOVATION, SCIENCE EDUCATION,
SCIENCE EDUCATION HISTORY, SCIENCE HISTORY,
UNITED STATES.

ED 020 952
LISONBEE, LORENZO
TEACHING SCIENCE TO THE DISADVANTAGED
PUPIL.
PUB DATE OCT 63
EDRS PRICE MF-\$0.25 HC-\$0.30 4P.

DESCRIPTORS— *BIOLOGY, *DISADVANTAGED
YOUTH, *SCIENCE INSTRUCTION, BIOLOGICAL
SCIENCES CURRICULUM STUDY, DISCOVERY
LEARNING, EDUCATIONAL QUALITY, HIGH SCHOOL
STUDENTS, SCIENCE COURSE IMPROVEMENT
PROJECT, SCIENCE CURRICULUM, SCIENCE
FACILITIES, SCIENTIFIC CONCEPTS,
SOCIOECONOMIC BACKGROUND, TEACHER
ATTITUDES, URBAN SCHOOLS.

II. MATHEMATICS EDUCATION

ED 012 397

HENKELMAN, JAMES AND OTHERS

MARYLAND ELEMENTARY MATHEMATICS

INSERVICE PROGRAM. FINAL REPORT OF
STUDY—DEMONSTRATION PHASE.

MARYLAND UNIV., COLLEGE PARK, BUR. OF EDUC.
RES.

REPORT NUMBER BR-6-1737

PUB DATE 01 MAR 67

EDRS PRICE MF-\$0.75 HC-\$7.60 152P.

DESCRIPTORS— *BEHAVIOR DEVELOPMENT,
*INSERVICE TEACHER EDUCATION, *INSTRUC-
TIONAL MATERIALS, *MATERIAL DEVELOPMENT,
*MATHEMATICS INSTRUCTION, ALGORITHMS,
COLLEGE PARK, MATHEMATICAL ENRICHMENT,
MATHEMATICS MATERIALS, PILOT PROJECTS,
SUMMER WORKSHOPS.

ED 012 633

BRUNS, CARL AND OTHERS

QUIPS AND TIPS ON CUISENAIRE.

PUB DATE JUN 63

EDRS PRICE MF-\$0.25 HC-\$2.40 48P.

DESCRIPTORS— *ELEMENTARY GRADES, *FUNDAM-
ENTAL CONCEPTS, *MATHEMATICAL CONCEPTS,
*MATHEMATICS MATERIALS, CUISENAIRE
MATERIALS, MATHEMATICAL ENRICHMENT,
MATHEMATICS CURRICULUM, NUMBER CONCEPTS,
TEACHING GUIDES, UNIVERSITY CITY.

ED 013 130

PITTMAN, KENNETH C. AND OTHERS

MIGRANT NON-CURRICULAR SUPPORTIVE
EDUCATION PROGRAM, PILOT PROJECT NUMBER
CG 8561 A/1. EVALUATION REPORT.

COLLIER COUNTY BOARD OF PUBLIC INST.,
NAPLES, FLA.

PUB DATE 01 JUL 66

EDRS PRICE MF-\$0.25 HC-\$1.90 36P.

DESCRIPTORS— *COMPENSATORY EDUCATION
PROGRAMS, *FEDERAL PROGRAMS, *LANGUAGE
ARTS, *MATHEMATICS, *MIGRANT YOUTH, COLLIER
COUNTY FLORIDA, DISADVANTAGED YOUTH,
EVALUATION, MIGRANT EDUCATION, OEO, TITLE
IIIB.

ED 013 227

SUYDAM, MARILYN N.

COMPIATION OF RESEARCH RESULTS IN ELE-
RY ARITHMETIC SINCE 1900. FINAL REPORT.

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK.

PUB DATE AUG 67

EDRS PRICE MF-\$0.50 HC-\$3.80 74P.

DESCRIPTORS— *EDUCATIONAL RESEARCH, *ELE-
MENTARY SCHOOL MATHEMATICS, *RESEARCH,
BIBLIOGRAPHIES, CONCEPT FORMATION,
DOCTORAL THESES, EDUCATIONAL OBJECTIVES,
EVALUATION, INSTRUCTION, LEARNING
THEORIES, MATHEMATICS, PENNSYLVANIA,
PENNSYLVANIA STATE UNIVERSITY, UNITED
STATES OFFICE OF EDUCATION, UNIVERSITY
PARK.

ED 013 377

STOLUROW, LAWRENCE M. BEBERMAN, MAX

COMPARATIVE STUDIES OF PRINCIPLES FOR PRO-
GRAMMING MATHEMATICS IN AUTOMATED
INSTRUCTION. FINAL REPORT.

ILLINOIS UNIV., URBANA, BUR. OF EDUC.
RESEARCH

REPORT NUMBER NDEA-VIIA-806

PUB DATE JUL 64

EDRS PRICE MF-\$0.25 HC-\$2.55 49P.

DESCRIPTORS— *EDUCATIONAL RESEARCH,
*LITERATURE REVIEWS, *MATHEMATICS IN-
STRUCTION, *PROGRAMED INSTRUCTION,
*RESEARCH PROJECTS, COMPUTER ASSISTED
INSTRUCTION, INSTRUCTIONAL TECHNOLOGY,
RESEARCH METHODOLOGY, TEACHING
TECHNIQUES.

ED 013 514

ARITHMETIC ENRICHMENT IDEAS FOR GRADES 1, 2
AND 3.

OHIO STATE DEPT. OF EDUCATION, COLUMBUS

CINCINNATI PUBLIC SCHOOLS, OHIO

PUB DATE 64

EDRS PRICE MF-\$0.25 HC-\$1.50 28P.

DESCRIPTORS— *ARITHMETIC, *ENRICHMENT
ACTIVITIES, *GIFTED, COLUMBUS, GRADE 1,
GRADE 2, GRADE 3, PRIMARY GRADES, SPECIAL
EDUCATION.

ED 013 937

DORNFELD, BLANCHE E.

COMMERCIAL FOODS, MATHEMATICS-I.

NEW JERSEY STATE DEPT. OF EDUCATION,
TRENTON

RUTGERS, THE STATE UNIV., NEW BRUNSWICK, N.J.

PUB DATE JUL 66

EDRS PRICE MF-\$0.75 HC NOT AVAILABLE
FROM EDRS. 141P.

DESCRIPTORS— *BASIC SKILLS. *FOOD SERVICE INDUSTRY. *MATHEMATICAL APPLICATIONS. *MATHEMATICS INSTRUCTION. *TRADE AND INDUSTRIAL EDUCATION. HIGH SCHOOLS. STUDY GUIDES.

ED 013 939
COLICCHIO, ANTOINETTE J.
NEEDLE TRADES. MATHEMATICS—I.
NEW JERSEY STATE DEPT. OF EDUCATION.
TRENTON
RUTGERS. THE STATE UNIV.. NEW BRUNSWICK. N.J.
PUB DATE JUL 60
EDRS PRICE MF-\$1.00 HC NOT
AVAILABLE FROM EDRS. 245P.

DESCRIPTORS— *NEEDLE TRADES. *PRACTICAL MATHEMATICS. *STUDY GUIDES. *TRADE AND INDUSTRIAL EDUCATION. HIGH SCHOOLS.

ED 014 190 40
HIGGINS, CONWELL RUSCH, REUBEN R.
DEVELOPMENT AND EVALUATION OF AUTO-
INSTRUCTIONAL PROGRAMS IN ARITHMETIC FOR
THE EDUCABLY MENTALLY HANDICAPPED. FINAL
REPORT
ALBANY PUBLIC SCHOOLS. N.Y.
REPORT NUMBER HCY-2514
REPORT NUMBER BR-5-0413
PUB DATE AUG 67
GRANT OEG-32-42-6165-5005
EDRS PRICE MF-\$0.75 HC-\$8.35 165P.

DESCRIPTORS— *ARITHMETIC. *AUTOIN-
STRUCTIONAL PROGRAMS. *EDUCABLY MENTALLY
HANDICAPPED. *PROGRAMED INSTRUCTION.
*TEACHING MACHINES. AUDIO VISUAL
MANIPULATIVE DESK. AUDIOVISUAL PROGRAMS.
CHILDREN. EXPERIMENTAL PROGRAMS.
PROGRAM DEVELOPMENT. PROGRAM
EVALUATION. PROGRAMED MATERIALS.
PROGRAMED UNITS. SPECIAL EDUCATION.
TRAINABLE MENTALLY HANDICAPPED.

ED 014 215
SUPPES, PATRICK AND OTHERS
ARITHMETIC DRILLS AND REVIEW ON A COMPUTER-
BASED TELETYPE.
STANFORD UNIV.. CALIF.. INST. MATH STUDIES SOC.
SCI.
REPORT NUMBER PSYCHOL-SER-TR-83
PUB DATE 5 NOV 65
EDRS PRICE MF-\$0.25 HC-\$0.95 17P.

DESCRIPTORS— *ARITHMETIC. *FEEDBACK.
*PROBLEM SETS. *TEACHING MACHINES. *TESTS OF
SIGNIFICANCE. CALIFORNIA. CUPERTINO SCHOOL
DISTRICT. GRANT SCHOOL.

ED 014 454 24
EASTERDAY, KENNETH E.
STUDY OF MATHEMATICS TEACHERS IN ALABAMA.
FINAL REPORT.
AUBURN UNIV., ALA.
REPORT NUMBER BR-6-8594
PUB DATE 31 MAY 67
CONTRACT OEC-2-7-08594-0458
EDRS PRICE MF-\$0.50 HC-\$5.00 98P.

DESCRIPTORS— *MATHEMATICS TEACHERS.
ALABAMA. CLASS SIZE. DEGREES (TITLES).
ELEMENTARY SCHOOL TEACHERS. MATHEMATICS
CURRICULUM. MATHEMATICS EDUCATION.
QUESTIONNAIRES. SEX DIFFERENCES. STATE
ACTION. STATE STANDARDS. TABLES (DATA).
TEACHER ATTITUDES. TEACHER CERTIFICATION.
TEACHER EXPERIENCE. TEACHER PROGRAMS.
TEACHER SALARIES.

ED 014 503
MONTAGUE, DAVID O.
ARITHMETIC CONCEPTS OF KINDERGARTEN
CHILDREN IN CONTRASTING SOCIOECONOMIC
AREAS.
PUB DATE APR 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ARITHMETIC. *CONCEPT FOR-
MATION. *KINDERGARTEN CHILDREN. *SOCIO-
ECONOMIC BACKGROUND. ARITHMETIC CONCEPTS
INVENTORY K AND 1ST, RESEARCH.

ED 014 506
ATKINSON, RICHARD C. SUPPES, PATRICK
PROJECT FOR AN AUTOMATED PRIMARY-GRADE
READING AND ARITHMETIC CURRICULUM FOR
CULTURALLY-DEPRIVED CHILDREN. PROGRESS
REPORT NUMBER 5, JULY 1 TO DECEMBER 31, 1966.
STANFORD UNIV., CALIF., INST. MATH. STUDIES
SOC. SCI.
REPORT NUMBER BR-5-0684-PR-5
PUB DATE JAN 67
CONTRACT OEC-5-10-050
EDRS PRICE MF-\$0.25 HC-\$1.10 20P.

DESCRIPTORS— *ARITHMETIC CURRICULUM.
*COMPUTER ASSISTED INSTRUCTION. *DIS-
ADVANTAGED YOUTH. *PROGRAMED IN-

STRUCTION. *READING PROGRAMS. BRENTWOOD SCHOOL. CALIFORNIA. COMPUTERS. IBM 1800/1500 CAI SYSTEM. PRIMARY GRADES. PROGRAM DEVELOPMENT. PROGRAMED MATERIALS. STANFORD. TEACHING PROCEDURES.

ED 014 849

BARTNICK, LAWRENCE P.

DESIGNING THE MATHEMATICS CLASSROOM.

NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS INC.

PUBDATE 57

EDRS PRICE MF-\$0.25 HC-\$2.30 44P.

DESCRIPTORS— *CLASSROOM DESIGN. *EDUCATIONAL EQUIPMENT. *MATHEMATICS MATERIALS. CLASSROOM FURNITURE. ELEMENTARY SCHOOL MATHEMATICS. EQUIPMENT. FURNITURE. FURNITURE ARRANGEMENT. LIGHTING. MATHEMATICS. PHYSICAL FACILITIES. SCHOOL DESIGN. SCHOOL PLANNING. SECONDARY SCHOOL MATHEMATICS.

ED 014 886

TELEVISION IN MATHEMATICS EDUCATION.

NATIONAL CENTER FOR SCHOOL AND COLLEGE

TELEVISION NEWS SUPPLEMENT NUMBER FIVE.

NATIONAL CENTER FOR SCHOOL AND COLL.

TELEVISION

EDRS PRICE MF-\$0.25 HC-\$0.60 10P.

DESCRIPTORS— *CONFERENCES. *ELEMENTARY SCHOOLS. *INSTRUCTIONAL TELEVISION. *MATHEMATICS EDUCATION. *SECONDARY SCHOOLS. INSERVICE TEACHER EDUCATION.

ED 015 015

PAYNE, JOSEPH N.

THE FORMATION OF ADDITION AND SUBTRACTION CONCEPTS BY PUPILS IN GRADES ONE AND TWO. FINAL REPORT.

MICHIGAN UNIV., ANN ARBOR

REPORT NUMBER CRP-S-244

REPORT NUMBER BR-5-803

PUBDATE 1 MAY 67

GRANT OEG-5-10-346

EDRS PRICE MF-\$0.25 HC-\$1.30 24P.

DESCRIPTORS— *ACHIEVEMENT. *MATHEMATICAL CONCEPTS. *METHODS RESEARCH. *STUDENT ATTITUDES. *SYMBOLIC LEARNING. ARITHMETIC. CONCEPT FORMATION. GRADE 1. GRADE 2. LONGITUDINAL STUDIES. NUMBER CONCEPTS. STATISTICAL ANALYSIS. SUBTRACTION. YPSILANTI PUBLIC SCHOOLS.

ED 015 129

HUSEN, TORSTEN AND OTHERS

INTERNATIONAL STUDY OF ACHIEVEMENT IN MATHEMATICS. A COMPARISON OF TWELVE COUNTRIES. VOLUME I.

INTERNATIONAL PROJ. FOR THE EVAL. OF EDUC. ACHIEV.

REPORT NUMBER BR-5-0676-VOL.-1

PUB DATE 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT. *COMPARATIVE EDUCATION. *EVALUATION. *MATHEMATICS EDUCATION. AUSTRALIA. BELGIUM. COMPARATIVE TESTING. CULTURAL DIFFERENCES. CULTURE. CURRICULUM. EDUCATIONAL OBJECTIVES. EDUCATIONAL PHILOSOPHY. ENGLAND. FINLAND. FRANCE. INSTRUCTION. INTERNATIONAL ORGANIZATIONS. ISRAEL. RESEARCH METHODOLOGY. SECONDARY EDUCATION. SOCIOECONOMIC INFLUENCES. STUDENT CHARACTERISTICS. TEACHER CHARACTERISTICS. TEACHER EDUCATION. TESTING. UNESCO.

ED 015 130

HUSEN, TORSTEN AND OTHERS

INTERNATIONAL STUDY OF ACHIEVEMENT IN MATHEMATICS. A COMPARISON OF TWELVE COUNTRIES. VOLUME II.

INTERNATIONAL PROJ. FOR THE EVAL. OF EDUC. ACHIEV.

REPORT NUMBER BR-5-0676-VOL-2

PUB DATE 67

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT. *COMPARATIVE EDUCATION. *EVALUATION. *MATHEMATICS EDUCATION. *SECONDARY EDUCATION. *STATISTICAL DATA. *TESTING. ATTITUDES. AUSTRALIA. BELGIUM. BIBLIOGRAPHIES. COMPARATIVE TESTING. CULTURAL DIFFERENCES. CULTURE. CURRICULUM. EDUCATIONAL OBJECTIVES. EDUCATIONAL PHILOSOPHY. ENGLAND. FEDERAL REPUBLIC OF GERMANY. INSTRUCTION. INTERNATIONAL ORGANIZATION. SCHOOL ORGANIZATION. STUDENT CHARACTERISTICS.

ED 015 140

GOALS FOR SCHOOL MATHEMATICS. THE REPORT OF THE CONFERENCE ON SCHOOL MATHEMATICS (CAMBRIDGE, MASSACHUSETTS, 1963).

EDUCATIONAL SERVICES INC., NEWTON, MASS.

PUB DATE 63

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONFERENCE REPORTS.
*CURRICULUM DEVELOPMENT. *EDUCATIONAL
OBJECTIVES. *ELEMENTARY SCHOOL
MATHEMATICS. *MATHEMATICS EDUCATION.
*MODERN MATHEMATICS. *SECONDARY SCHOOL
MATHEMATICS. ALGEBRA. CALCULUS. CAMBRIDGE
CONFERENCE ON SCHOOL MATHEMATICS.
CONFERENCES. COURSE CONTENT. EDUCATIONAL
SERVICES INCORPORATED. GEOMETRY.
INSTRUCTION. MATHEMATICS. NATIONAL SCIENCE
FOUNDATION. TEACHER EDUCATION. TEACHING
PROCEDURES.

ED 015 723
FRESHMAN MATHEMATICS COURSE DESCRIPTIONS.
TEXAS COLLEGES AND UNIVERSITIES.
TEXAS EDUCATION AGENCY. AUSTIN
REPORT NUMBER BULL-662
PUB DATE 66
EDRS PRICE MF-\$0.75 HC-\$9.25 183P.

DESCRIPTORS— *COLLEGE MATHEMATICS.
*COURSE DESCRIPTIONS. *HIGHER EDUCATION.
*JUNIOR COLLEGES. ADMISSION CRITERIA. COURSE
CONTENT. MATHEMATICS CURRICULUM.
MATHEMATICS EDUCATION. PROGRAM
DESCRIPTIONS. TEXAS

ED 015 768
CRESWELL, DORIS E. BERGER, EMANUEL
THE DEVELOPMENT OF AN INFORMATION SYSTEM
FOR ELEMENTARY SCHOOL MATHEMATICS
CURRICULUM MATERIALS—A FEASIBILITY STUDY.
FINAL REPORT.
PENNSYLVANIA STATE DEPT. OF PUBLIC
INSTRUCTION
REPORT NUMBER BR-6-8152
PUB DATE NOV 67
CONTRACT OEC-6-10-352
EDRS PRICE MF-\$0.50 HC-\$3.20 62P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT.
*ELEMENTARY SCHOOL MATHEMATICS.
*INFORMATION RETRIEVAL. *INFORMATION
SYSTEMS. *MATHEMATICS MATERIALS. COMPUTERS.
FEASIBILITY STUDIES. HARRISBURG.
INFORMATION CENTERS. INFORMATION
SERVICES. INFORMATION STORAGE. MICROFILM.
PENNSYLVANIA RETRIEVAL OF INFORMATION
FOR MATHEMATICS EDUCATION SYSTEM (PRIMES).
SCHOOL DISTRICTS. SYSTEMS DEVELOPMENT.
TEXTBOOK SELECTION.

ED 015 791
DEAL, TERRY N.
EFFECTS OF A STRUCTURED PROGRAM OF
PRESCHOOL MATHEMATICS ON COGNITIVE
BEHAVIOR.
GEORGIA UNIV., ATHENS. RES. AND DEV. CTR. IN
EDUC.
REPORT NUMBER BR-5-0250-RR
CONTRACT OEC-6-10-061
EDRS PRICE MF-\$0.50 HC-\$3.55 69P.

DESCRIPTORS— *EXPERIMENTAL PROGRAMS.
*MATHEMATICS INSTRUCTION. *PRESCHOOL
CHILDREN. *PRESCHOOL LEARNING. *TRAINING
TECHNIQUES. AGE DIFFERENCES. ANALYSIS OF
VARIANCE. CONCEPT TEACHING. LEARNING
READINESS. NUMBER CONCEPTS. PIAGET. TASK
PERFORMANCE. TRANSFER OF TRAINING.

ED 015 872
FEHR, HOWARD F.
SECONDARY SCHOOL MATHEMATICS CURRICULUM
IMPROVEMENT STUDY. FINAL REPORT.
COLUMBIA UNIV., NEW YORK. TEACHERS COLLEGE
REPORT NUMBER BR-5-0647
PUB DATE OCT 67
CONTRACT OEC-6-10-097
EDRS PRICE MF-\$0.25 HC-\$2.70 52P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT.
*EDUCATIONAL PROGRAMS. *MATHEMATICS.
*SECONDARY SCHOOL MATHEMATICS. COURSE
CONTENT. CURRICULUM GUIDES. EVALUATION.
GRADE 7. OBJECTIVES. SECONDARY SCHOOL
MATHEMATICS CURRICULUM IMPROVEMENT
STUDY (SSMCIS). SEQUENTIAL TEST OF
EDUCATIONAL PROGRESS (STEP). TEACHER
EDUCATION.

ED 015 873
RYAN, JAMES J.
EFFECTS OF EXPERIMENTAL PROGRAMS IN
MATHEMATICS ON RELEVANT ATTITUDES AND
INTERESTS OF NINTH GRADE PUPILS AS
MEASURED BY QUESTIONNAIRE INDICES. INTERIM
REPORT.
MINNESOTA STATE DEPT. OF EDUCATION. ST. PAUL
REPORT NUMBER BR-5-1028-IR
PUB DATE JUL 67
CONTRACT OEC-5-10-051
EDRS PRICE MF-\$0.50 HC-\$3.80 74P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT.
*EDUCATIONAL PROGRAMS. *EVALUATION.

*INSTRUCTION.*SECONDARY SCHOOL,MATH-
EMATICS.*STUDENT CHARACTERISTICS, AIKEN
MATHEMATICS INTEREST SCALE, ALGEBRA,
ATTITUDES, BALL STATE, DUTTON MATHEMATICS
ATTITUDE SCALE, GRADE 9, INTERESTS, LEARNING
DIFFICULTIES, MATHEMATICS, SCHOOL
MATHEMATICS STUDY GROUP, TEXTBOOKS THE
UNIVERSITY OF ILLINOIS COMMITTEE ON SCHOOL
MATHEMATICS.

ED 015 874 24
RYAN, JAMES J.
EFFECTS OF EXPERIMENTAL PROGRAMS IN NINTH
GRADE ALGEBRA ON PUPILS' SUBSEQUENT
ENROLLMENT AND PERFORMANCE IN
MATHEMATICS AND SCIENCE SUBJECTS. INTERIM
REPORT.

MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL
REPORT NUMBER BR-5-1028-IR-1
PUB DATE AUG 67
CONTRACT OEC-5-10-051
EDRS PRICE MF-\$0.25 HC-\$1.25 23P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT,
*EDUCATIONAL PROGRAMS, *MATHEMATICS,
*SECONDARY SCHOOL MATHEMATICS, *SECONDARY
SCHOOL SCIENCE, ACADEMIC ACHIEVEMENT, BALL
STATE, EXPERIMENTAL PROGRAMS, GRADE 10,
GRADE 11, GRADE 9, SCHOOL MATHEMATICS STUDY
GROUP (MSG), THE UNIVERSITY OF ILLINOIS
COMMITTEE ON SCHOOL MATHEMATICS (UICSM),
UNITED STATES DEPARTMENT OF HEALTH
EDUCATION AND WELFARE.

ED 016 533
TOWLER, J.O.
TRAINING EFFECTS AND CONCEPT DEVELOP-
MENT—A STUDY OF THE CONSERVATION OF
CONTINUOUS QUANTITY IN CHILDREN.
PUB DATE 68
EDRS PRICE MF-\$0.25 HC-\$0.65 11P.

DESCRIPTORS— *COGNITIVE MEASUREMENT,
*CONCEPT FORMATION, *EARLY CHILDHOOD,
MATHEMATICAL CONCEPTS, *TRANSFER OF
TRAINING, COGNITIVE DEVELOPMENT, LEARNING
PLATEAUS, MENTAL DEVELOPMENT, PIAGET,
POST TESTING, PRETESTING, RETENTION,
TRAINING TECHNIQUES.

ED 016 587
SHAW, JUDITH A.
READING PROBLEMS IN MATHEMATICS TEXTS.
PUB DATE AUG 67
PRICE MF-\$0.25 HC-\$1.05 19P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHE-
MATICS, *READABILITY, *SECONDARY SCHOOL
MATHEMATICS, *TEXTBOOK EVALUATION,
*VOCABULARY, CONTENT READING, READING
LEVEL, READING SKILLS, SAN DIEGO STATE
COLLEGE, SCHOOL OF EDUCATION.

ED 016 609 24
SUTTON, JOSEPH T.
INDIVIDUALIZING JUNIOR HIGH SCHOOL
MATHEMATICS INSTRUCTION. FINAL REPORT.
STETSON UNIV., DELAND, FLA.
REPORT NUMBER BR-5-0525
REPORT NUMBER CRP-1365
PUB DATE AUG 67
CONTRACT OEC-2-10-038
EDRS PRICE MF-\$0.50 HC-\$3.20 62P.

DESCRIPTORS— *INDIVIDUAL INSTRUCTION,
*INSTRUCTION, *MATHEMATICS, *SECONDARY
SCHOOL MATHEMATICS, CONVENTIONAL
INSTRUCTION, EVALUATION, FLORIDA, GRADE 7,
PROGRAM EVALUATION, VOLUSIA COUNTY.

ED 016 611
HEWIT, FRANCES MECKES, RICHARD C.
BIBLIOGRAPHIES, ELEMENTARY SCHOOL
MATHEMATICS.
ILLINOIS STATE OFF. SUPT. PUB. INSTR.,
SPRINGFIELD
PUB DATE AUG 66
EDRS PRICE MF-\$0.25 HC-\$1.90 36P.

DESCRIPTORS— *BIBLIOGRAPHIES, *ELE-
MENTARY SCHOOL MATHEMATICS, *MATHE-
MATICS, *REFERENCE MATERIALS, ANNOTATED
BIBLIOGRAPHIES, LIBRARY MATERIALS, TEACHER
EDUCATION, TEXTBOOKS.

ED 016 612
BENNETT, LURA
A TRANSITIONAL CURRICULUM GUIDE FOR
MATHEMATICS IN GRADES 7 AND 8.
NEW MEXICO STATE DEPT. OF EDUCATION, SANTA
FE
PUB DATE 66
EDRS PRICE MF-\$0.75 HC-\$6.85 135P.

DESCRIPTORS— *CURRICULUM GUIDES,
*GEOMETRY, *MATHEMATICS, *SECONDARY
SCHOOL MATHEMATICS, *TEACHING GUIDES,
ARITHMETIC, CURRICULUM, GRADE 7, GRADE 8,
MEASUREMENT, NEW MEXICO, STATISTICS.

ED 016 613

KOCH, RICHARD R.
GUIDELINES FOR MATHEMATICS IN THE ELEMENTARY SCHOOL.
DELAWARE STATE DEPT. OF PUB. INSTRUCTION,
DOVER
PUB DATE SEP 66
EDRS PRICE MF-\$1.00 HC-\$11.05 219P.

DESCRIPTORS— *ARITHMETIC. *CURRICULUM. *CURRICULUM GUIDES. *ELEMENTARY SCHOOL MATHEMATICS. *MATHEMATICS. *TEACHING GUIDES. DELAWARE. MEASUREMENT. TEACHING PROCEDURES. TEACHING TECHNIQUES.

ED 016 614

VAN SPEYBROECK, JAMES ROBBINS, MORTON
SETS, SENTENCES, AND SYSTEMS. HANDBOOK FOR JUNIOR HIGH SCHOOL MATHEMATICS WORKSHOPS.
ILLINOIS STATE OFF. SUPT. PUB. INSTR.,
SPRINGFIELD
EDRS PRICE MF-\$0.50 HC-\$3.25 63P.

DESCRIPTORS— *INSERVICE TEACHER EDUCATION. *MATHEMATICS. *SECONDARY SCHOOL MATHEMATICS. *TEACHER WORKSHOPS. MATHEMATICS MATERIALS. TEACHER EDUCATION.

ED 016 615

AN EXPERIMENTAL COURSE IN MATHEMATICS FOR THE NINTH YEAR. UNIT 12. TRIGONOMETRIC FUNCTIONS.
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 65
EDRS PRICE MF-\$0.50 HC-\$3.60 70P.

DESCRIPTORS— *CURRICULUM. *CURRICULUM GUIDES. *MATHEMATICS. *SECONDARY SCHOOL MATHEMATICS. *TEACHING GUIDES. *TRIGONOMETRY. GRADE 9. NEW YORK.

ED 016 616

NINTH YEAR MATHEMATICS, COURSE I, ALGEBRA
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 65
EDRS PRICE MF-\$0.25 HC-\$1.35 25P.

DESCRIPTORS— *ALGEBRA. *CURRICULUM GUIDES. *MATHEMATICS. *SECONDARY SCHOOL MATHEMATICS. *TEACHING GUIDES. ARITHMETIC. GEOMETRY. GRADE 9. NEW YORK. TRIGONOMETRY.

ED 016 617

AN EXPERIMENTAL COURSE IN MATHEMATICS FOR THE NINTH YEAR. UNITS 8 AND 9. POLYNOMIAL EXPRESSIONS AND POLYNOMIAL EQUATIONS.
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 65
EDRS PRICE MF-\$0.50 HC-\$3.45 67P.

DESCRIPTORS— *CURRICULUM. *CURRICULUM GUIDES. *MATHEMATICS. *SECONDARY SCHOOL MATHEMATICS. *TEACHING GUIDES. ALGEBRA. GRADE 9. NEW YORK.

ED 016 618

AN EXPERIMENTAL COURSE IN MATHEMATICS FOR THE NINTH YEAR. UNITS 10 AND 11. OPEN SENTENCES IN TWO VARIABLES AND RELATIONS AND FUNCTIONS.
N.Y. STATE EDUC. DEPT., ALBANY, BUR. OF SEC. CURR. DEV.
PUB DATE 65
EDRS PRICE MF-\$0.50 HC-\$4.25 83P.

DESCRIPTORS— *CURRICULUM. *CURRICULUM GUIDES. *MATHEMATICS. *SECONDARY SCHOOL MATHEMATICS. ALGEBRA. GRADE 9. NEW YORK. TEACHING GUIDES. TRIGONOMETRY.

ED 016 622

RICHMOND, RUTH
INSTRUCTIONAL GUIDE FOR SENIOR MATHEMATICS.
LOS ANGELES CITY SCHOOLS, CALIF.
REPORT NUMBER SC-624
PUB DATE 67
EDRS PRICE MF-\$0.25 HC-\$2.25 43P.

DESCRIPTORS— *MATHEMATICS. *SECONDARY SCHOOL MATHEMATICS. *TEACHING GUIDES. ALGEBRA. ARITHMETIC. CURRICULUM GUIDES. GENERAL EDUCATION. GEOMETRY. GRADE 12.

ED 016 623

RICHMOND, RUTH KUSSMANN
INSTRUCTIONAL GUIDE FOR BASIC MATHEMATICS 1. GRADES 10 TO 12.
LOS ANGELES CITY SCHOOLS, CALIF.
REPORT NUMBER X-58
PUB DATE 66
EDRS PRICE MF-\$0.25 HC-\$1.80 34P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT.
*MATHEMATICS. *SECONDARY SCHOOL
MATHEMATICS. *TEACHING GUIDES. ARITHMETIC.
CALIFORNIA. COURSE CONTENT. GEOMETRY.
GRADE 10. GRADE 11. GRADE 12. LOS ANGELES. LOW
ABILITY STUDENTS. SLOW LEARNERS. STUDENT
CHARACTERISTICS.

ED 016 624
WARREN, LEONARD M.
INSTRUCTIONAL GUIDE FOR ALGEBRA 1, GRADES 9
TO 12.
LOS ANGELES CITY SCHOOLS, CALIF.
REPORT NUMBER X-65
PUB DATE 66
EDRS PRICE MF-\$0.25 HC-\$2.75 53P.

DESCRIPTORS— *ALGEBRA. *CURRICULUM
GUIDES. *SECONDARY SCHOOL MATHEMATICS.
*TEACHING GUIDES. CALIFORNIA. COURSE
CONTENT. INSTRUCTIONAL MATERIALS. LOS
ANGELES. MATHEMATICS. TEACHING
PROCEDURES.

ED 016 632
SUPPES, PATRICK ATKINSON, RICHARD C.
STANFORD PROGRAM IN COMPUTER-ASSISTED
INSTRUCTION. PROGRESS REPORT 6, FOR THE
PERIOD JANUARY 1, 1967 TO MARCH 31, 1967.
STANFORD UNIV., CALIF. INST. FOR MATH. STUDIES
PUB DATE 67
EDRS PRICE MF-\$0.25 HC-\$1.30 24P.

DESCRIPTORS— *COMPUTER ASSISTED INSTRU-
TION. *ELEMENTARY SCHOOL MATHEMATICS.
*MATHEMATICS. *READING. *SLAVIC LANGUAGES.
ALGEBRA. CALIFORNIA. COMPUTERS.
EVALUATION. LANGUAGES. STANFORD. STANFORD
UNIVERSITY.

ED 016 633
SUPPES, PATRICK ATKINSON, RICHARD C.
STANFORD PROGRAM IN COMPUTER-ASSISTED
INSTRUCTION. PROGRESS REPORT 7, FOR THE
PERIOD APRIL 1, 1967 TO JUNE 30, 1967.
STANFORD UNIV., CALIF. INST. FOR MATH. STUDIES
PUB DATE 67
EDRS PRICE MF-\$0.25 HC-\$2.30 44P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHE-
MATICS. *MATHEMATICS. *READING. *SLAVIC
LANGUAGES. CALIFORNIA. COMPUTER ASSISTED
INSTRUCTION. COMPUTERS. EVALUATION.
LANGUAGES. STANFORD. STANFORD UNIVERSITY.

ED 016 653
JOHNSON, MAURITZ SCRIVEN, ELDON
CLASS SIZE AND ACHIEVEMENT GAINS IN SEVENTH-
AND EIGHTH-GRADE ENGLISH AND MATHEMATICS.
PUB DATE 67
EDRS PRICE MF-\$0.25 HC-\$0.70 12P.

DESCRIPTORS— *ACHIEVEMENT GAINS. *CLASS
SIZE. *ENGLISH INSTRUCTION. *HOMOGENEOUS
GROUPING. *MATHEMATICS INSTRUCTION.
ARITHMETIC. GRADE 7. GRADE 8. NEW YORK
STATE. READING COMPREHENSION. TEACHING
LOAD.

ED 016 784
LANDIS, WILLIAM HARPER
SECONDARY STUDENTS' MATHEMATICS COMPE-
TENCIES IN RELATION TO EMPLOYMENT TESTS.
UNIVERSITY OF SOUTHERN CALIFORNIA, LOS
ANGELES
REPORT NUMBER BR-6-8323
PUB DATE 67
GRANT OEG-4-6-068323-0740
EDRS PRICE MF-\$0.75 HC-\$9.95 197P.

DESCRIPTORS— *HIGH SCHOOL STUDENTS. *JOB
APPLICATION. *MATHEMATICS. *SCREENING TESTS.
CALIFORNIA. COMPARATIVE ANALYSIS. DOCTORAL
THESES. EMPLOYERS. MATHEMATICAL
EXPERIENCE. TERMINAL STUDENTS.

ED 017 011
CHAPIN, JUNE R.
USE OF DISCRIMINANT ANALYSIS IN A STUDY OF
THE PATTERNS OF CHARACTERISTICS OF
MATHEMATICS TEACHERS
AMERICAN EDUCATIONAL RESEARCH ASSN., WASH.,
D.C.
PUB DATE 68
EDRS PRICE MF-\$0.25 HC-\$0.80 14P.

DESCRIPTORS— *DISCRIMINANT ANALYSIS.
*MATHEMATICS TEACHERS. *TEACHER
CHARACTERISTICS.

ED 017 167 56
STOLUROW, LAWRENCE M.
PROGRAMED INSTRUCTIONS AND THE TEACHING
OF MATHEMATICS.
ILLINOIS UNIV., URBANA. BUR. OF EDUC.
RESEARCH
REPORT NUMBER PN-711151-01
REPORT NUMBER 7A-806
PUB DATE 29 DEC 63
EDRS PRICE MF-\$0.25 HC-\$1.10 20P.

DESCRIPTORS— *CURRICULUM RESEARCH, *MATHEMATICS INSTRUCTION, *METHODS RESEARCH, *PROGRAMED INSTRUCTION, DISCOVERY LEARNING, LEARNING PROCESSES, LEARNING THEORIES.

ED 017 451 24
SEVENTH YEAR MATHEMATICS, VOLUME I. EXPERIMENTAL EDITION.
SECONDARY SCHOOL MATHEMATICS CURRICULUM IMPR. STUDY
REPORT NUMBER BR-5-0647
PUB DATE 66
EDRS PRICE MF-\$0.50 HC-\$5.45 107P.

DESCRIPTORS— *CURRICULUM, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *STATISTICS, CURRICULUM DEVELOPMENT, CURRICULUM GUIDES, GRADE 7, NUMBER SYSTEMS, SET THEORY.

ED 017 452 24
MATHEMATICS I. VOLUME 3, EXPERIMENTAL EDITION.
SECONDARY SCHOOL MATHEMATICS CURRICULUM IMPR. STUDY
REPORT NUMBER BR-5-0647
PUB DATE 67
EDRS PRICE MF-\$0.50 HC-\$6.00 118P.

DESCRIPTORS— *CURRICULUM, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, CURRICULUM DEVELOPMENT, GEOMETRY, GRADE 7.

ED 017 453
MATHEMATICS I. VOLUME 2, EXPERIMENTAL EDITION.
SECONDARY SCHOOL MATHEMATICS CURRICULUM IMPR. STUDY
REPORT NUMBER BR-5-0647
PUB DATE 66
EDRS PRICE MF-\$0.25 HC-\$2.65 51P.

DESCRIPTORS— *CURRICULUM, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, CURRICULUM DEVELOPMENT, CURRICULUM GUIDES, SECONDARY SCHOOL MATHEMATICS.

ED 017 454
SHARPE, GLYN H.
SOME BEHAVIORAL OBJECTIVES FOR ELEMENTARY SCHOOL MATHEMATICS PROGRAMS.
COLORADO STATE DEPT. OF EDUCATION, DENVER
PUB DATE AUG 66
EDRS PRICE MF-\$0.25 HC-\$1.60 30P.

DESCRIPTORS— *EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, ARITHMETIC, BEHAVIORAL OBJECTIVES, GEOMETRY, OBJECTIVES.

ED 017 457
SPROSS, PATRICIA M.
ELEMENTARY ARITHMETIC AND LEARNING AIDS.
OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.
REPORT NUMBER OE-29063
PUB DATE 65
EDRS PRICE MF-\$0.75 HC NOT
AVAILABLE FROM EDRS 142P.

DESCRIPTORS— *ARITHMETIC, *CURRICULUM, *CURRICULUM GUIDES, *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *INSTRUCTIONAL AIDS, *MATHEMATICS, *TEACHER EDUCATION.

ED 017 458 24
DAVIS, ROBERT B.
A MODERN MATHEMATICS PROGRAM AS IT PERTAINS TO THE INTERRELATIONSHIP OF MATHEMATICAL CONTENT, TEACHING METHODS AND CLASSROOM ATMOSPHERE, THE MADISON PROJECT.
SYRACUSE UNIV., N.Y.
REPORT NUMBER BR-5-1172
WEBSTER COLL., WEBSTERS GROVE, MO.
PUB DATE OCT 67
EDRS PRICE MF-\$1.50 HC-\$19.15 381P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING METHODS, ALGEBRA, ARITHMETIC, GEOMETRY, SYRACUSE UNIVERSITY, THE MADISON PROJECT, WEBSTER UNIVERSITY.

ED 017 459
MENDELSON, MELVIN
MATHEMATICS EDUCATION PROGRAMS FUNDED UNDER TITLE I ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965.
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 68
EDRS PRICE MF-\$0.25 HC-\$2.70 52P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *EDUCATIONALLY DISADVANTAGED, *FEDERAL AID, *MATHEMATICS, *MATHEMATICS EDUCATION, *PROGRAM DESCRIPTIONS, *SECONDARY SCHOOL

MATHEMATICS. ELEMENTARY AND SECONDARY
EDUCATION ACT. ELEMENTARY SCHOOL MATHE-
MATICS. INSTRUCTION. NEW YORK. SMALL GROUP
INSTRUCTION. TITLE I.

ED 017 460

DUREN, WILLIAM L.

TENTATIVE RECOMMENDATIONS FOR THE
UNDERGRADUATE MATHEMATICS PROGRAM OF
STUDENTS IN THE BIOLOGICAL MANAGEMENT AND
SOCIAL SCIENCES.

COMMITTEE ON THE UNDERGRADUATE PROGRAM
IN MATH.

PUB DATE JAN 64

EDRS PRICE MF-\$0.25 HC-\$1.75 33P.

DESCRIPTORS— *COLLEGE MATHEMATICS. *CUR-
RICULUM DEVELOPMENT. *MATHEMATICS. *SOCIAL
SCIENCES. *UNDERGRADUATE STUDY. ALGEBRA.
BIOLOGY. CURRICULUM. HIGHER EDUCATION.
INSTRUCTION. MATHEMATICAL ASSOCIATION OF
AMERICA. NATIONAL SCIENCE FOUNDATION.
STATISTICS.

ED 017 461

ANDERSON, RICHARD D.

A CURRICULUM IN APPLIED MATHEMATICS.

COMMITTEE ON THE UNDERGRADUATE PROGRAM
IN MATH.

PUB DATE JAN 66

EDRS PRICE MF-\$0.25 HC-\$1.70 32P.

DESCRIPTORS— *COLLEGE MATHEMATICS. *CUR-
RICULUM. *CURRICULUM DEVELOPMENT. *MATHE-
MATICAL APPLICATIONS. *MATHEMATICS. ENGI-
NEERING. MATHEMATICAL ASSOCIATION OF
AMERICA. NATIONAL SCIENCE FOUNDATION.
PHYSICAL SCIENCES. SOCIAL SCIENCES.
UNDERGRADUATE STUDY.

ED 017 463

ANDERSON, RICHARD D.

MATHEMATICAL ENGINEERING. A FIVE YEAR
PROGRAM.

COMMITTEE ON THE UNDERGRADUATE PROGRAM
IN MATH.

PUB DATE OCT 66

EDRS PRICE MF-\$0.50 HC-\$4.50 88P.

DESCRIPTORS— *COLLEGE MATHEMATICS.
*CURRICULUM. *CURRICULUM DEVELOPMENT.
*ENGINEERING. *MATHEMATICS. *UNDER-
GRADUATE STUDY. CURRICULUM GUIDES. HIGHER
EDUCATION. INSTRUCTION. MATHEMATICAL
ASSOCIATION OF AMERICA. NATIONAL SCIENCE
FOUNDATION.

ED 017 464

ANDERSON, RICHARD D.

QUALIFICATIONS FOR A COLLEGE FACULTY IN
MATHEMATICS.

COMMITTEE ON THE UNDERGRADUATE PROGRAM
IN MATH.

PUB DATE JAN 67

EDRS PRICE MF-\$0.25 HC-\$1.15 21P.

DESCRIPTORS— *COLLEGE FACULTY. *COLLEGE
TEACHERS. *MATHEMATICS. *TEACHER
EDUCATION. *TEACHER QUALIFICATIONS.
COLLEGE MATHEMATICS. FACULTY. HIGHER
EDUCATION. MATHEMATICAL ASSOCIATION OF
AMERICA. MATHEMATICS TEACHERS. NATIONAL
SCIENCE FOUNDATION.

ED 017 465

SCANDURA, JOSEPH M.

TEACHING COLLEGE STUDENTS HOW TO LEARN
MATHEMATICS. WHAT IS LEARNED IN MATHE-
MATICAL DISCOVERY.

PENNSYLVANIA UNIV., PHILADELPHIA

PUB DATE 67

CONTRACT OEC-1-7-068798-0360

EDRS PRICE MF-\$0.50 HC-\$5.15 101P.

DESCRIPTORS— *COLLEGE MATHEMATICS.
*DISCOVERY LEARNING. *INSTRUCTION.
*MATHEMATICS. *TEACHING METHODS. LEARNING.
PROGRAMED INSTRUCTION. PROGRAMED
MATERIALS. TRANSFER OF TRAINING. UNIVERSITY
OF PENNSYLVANIA.

ED 017 637

LAWS, NORMAN G.

MATHEMATICAL EXPECTATIONS OF TECHNICIANS
IN MICHIGAN INDUSTRIES, A SPECIAL VOCATIONAL
EDUCATION RESEARCH PROJECT.

MICHIGAN ST. DEPT. OF PUBLIC INSTR., LANSING

PUB DATE JUL 66

EDRS PRICE MF-\$0.50 HC-\$3.10 60P.

DESCRIPTORS— *EDUCATIONAL NEEDS. *MATHE-
MATICS. *SUBPROFESSIONALS. EMPLOYMENT
QUALIFICATIONS. INDUSTRY. INTERVIEWS.
MICHIGAN. QUESTIONNAIRES. SURVEYS.

ED 018 067

FRAME, J. SUTHERLAND MCLEOD, JOHN W.

BUILDINGS AND FACILITIES FOR THE MATHE-
MATICAL SCIENCES.

CONFERENCE BOARD OF THE MATHEMATICAL
SCIENCES, WASH., D.C.

EDUCATIONAL FACILITIES LABS. INC., NEW YORK, N.Y.

PUB DATE 63

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EDUCATIONAL FACILITIES. *FACILITY GUIDELINES. *INSTRUCTIONAL MATERIALS. *MATHEMATICS INSTRUCTION. *PLANNING. AUDIOVISUAL AIDS. COURSE CONTENT. ENROLLMENT TRENDS. EQUIPMENT. INDIVIDUAL STUDY. LABORATORIES. LIBRARY FACILITIES.

ED 018 111 64

HOMME, LLOYDE.

A DEMONSTRATION OF THE USE OF SELF-INSTRUCTIONAL AND OTHER TEACHING TECHNIQUES FOR REMEDIAL INSTRUCTION OF LOW-ACHIEVING ADOLESCENTS IN READING AND MATHEMATICS. TECHNICAL PROGRESS REPORT NO. 2.

TMI INSTITUTE, ALBUQUERQUE, N. MEX.

REPORT NUMBER BR-5-0709

REPORT NUMBER NDEA-7B-487

PUB DATE 05 JAN 68

CONTRACT OEC-4-16-033

EDRS PRICE MF-\$0.50 HC-\$3.95 77P.

DESCRIPTORS— *ADMINISTRATOR ATTITUDES. *LOW ACHIEVERS. *PERFORMANCE TESTS. *SCHEDULING. *TEACHER ATTITUDES. ACADEMIC PERFORMANCE. ADOLESCENTS. ALBUQUERQUE. CLASSROOM TECHNIQUES. ESPERANZA SCHOOL. EXPERIMENTS. MANUALS. MOTIVATION TECHNIQUES. NEW MEXICO. PROGRAMED INSTRUCTION. REMEDIAL INSTRUCTION. SOCIALLY DEVIANT BEHAVIOR. TASK PERFORMANCE. TEACHING TECHNIQUES.

ED 018 272

IN-SERVICE EDUCATION IN ELEMENTARY SCHOOL MATHEMATICS.

NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS INC.

PUB DATE 67

EDRS PRICE MF-\$0.50 HC NOT AVAILABLE FROM EDRS. 60P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS. *INSERVICE TEACHER EDUCATION. *MATHEMATICS EDUCATION. ELEMENTARY SCHOOL TEACHERS. INDEPENDENT STUDY. INSTITUTES (TRAINING PROGRAMS). PROGRAM EVALUATION. TEACHER QUALIFICATIONS. TEACHER WORKSHOPS.

ED 018 276

MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS.

NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS INC.

PUB DATE 66

EDRS PRICE MF-\$1.00 HC NOT AVAILABLE FROM EDRS. 219P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS. *MATHEMATICAL CONCEPTS. *MATHEMATICS INSTRUCTION. *SET THEORY. *TEACHING GUIDES. ALGORITHMS. ARITHMETIC. NUMBER CONCEPTS. TEXTBOOKS.

ED 018 362

AN EXPERIMENTAL COURSE IN MATHEMATICS FOR THE NINTH YEAR, UNITS 1, 2, 3, AND 4.

NEW YORK STATE EDUCATION DEPT., ALBANY

PUB DATE 64

EDRS PRICE MF-\$0.50 HC-\$6.25 123P.

DESCRIPTORS— *ALGEBRA. *CURRICULUM. *CURRICULUM GUIDES. *MATHEMATICS. *SECONDARY SCHOOL MATHEMATICS. *SET THEORY. *TEACHING GUIDES. *TEACHING METHODS. GRADE 9, NEW YORK.

ED 018 364

COMPUTER ASSISTED MATHEMATICS INSTRUCTION, PILOT PROJECT.

CONNECTICUT STATE DEPT. OF EDUCATION, HARTFORD

PUB DATE 66

EDRS PRICE MF-\$0.25 HC-\$1.85 35P.

DESCRIPTORS— *COMPUTER ASSISTED INSTRUCTION. *CURRICULUM DEVELOPMENT. *MATHEMATICS. *SECONDARY SCHOOL MATHEMATICS. COMPUTERS. TEACHER EDUCATION.

ED 018 367

WINGET, LERUE

BUSINESS, INDUSTRIAL ARTS, AND GENERAL CONSUMER MATHEMATICS GUIDE, TENTATIVE.

UTAH STATE BOARD OF EDUCATION, SALT LAKE CITY

PUB DATE 66

EDRS PRICE MF-\$0.50 HC-\$6.35 125P.

DESCRIPTORS— *BUSINESS EDUCATION. *MATHEMATICS. *SECONDARY SCHOOL MATHEMATICS. *TEACHING GUIDES. ALGEBRA. ARITHMETIC. GENERAL EDUCATION. GEOMETRY. INDUSTRIAL ARTS. SALT LAKE CITY, UTAH, UTAH STATE BOARD OF EDUCATION.

ED 018 369
ENGELKING, D.F.
MATHEMATICS PROGRAM FOR IDAHO PUBLIC
SCHOOLS.
IDAHO STATE DEPT. OF EDUCATION, BOISE
PUB DATE 65
EDRS PRICE MF-\$0.25 HC-\$1.90 36P.

DESCRIPTORS— *ARITHMETIC, *CURRICULUM
GUIDES, *MATHEMATICS, *SECONDARY SCHOOL
MATHEMATICS, ADVANCED PLACEMENT,
ALGEBRA, BOISE, CURRICULUM, ELEMENTARY
SCHOOL MATHEMATICS, GEOMETRY, IDAHO, IDAHO
STATE DEPARTMENT OF EDUCATION, SPIRAL
CURRICULUM.

ED 018 372
WHEELER, D. H. AND OTHERS
NOTES ON MATHEMATICS IN PRIMARY SCHOOLS.
ASSOCIATION OF TEACHERS OF MATHEMATICS
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY
SCHOOL MATHEMATICS, *INSTRUCTION, *IN-
STRUCTIONAL MATERIALS, *MATHEMATICS,
*TEACHING METHODS, LEARNING, TEACHING
PROCEDURES.

ED 018 378
KENNEDY, LEONARD M.
MODELS FOR MATHEMATICS IN THE SCHOOL.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *AUDIOVISUAL AIDS, *ELE-
MENTARY SCHOOL MATHEMATICS, *INSTRUC-
TIONAL MATERIALS, *MATHEMATICS, ARITH-
METIC, GEOMETRY, INSTRUCTION, LEARNING,
MATHEMATICAL CONCEPTS, MATHEMATICAL
MODELS, MECHANICAL TEACHING AIDS.

ED 018 389
A LIST OF "GIMMICKS" FOR USE WITH JUNIOR HIGH
SCHOOL STUDENTS.
CENTRAL IOWA LOW-ACHIEVER MATHEMATICS
PROJECT
PUB DATE 67
EDRS PRICE MF-\$0.50 HC-\$4.95 97P.

DESCRIPTORS— *INSTRUCTION, *LOW ACHIEV-
ERS, *RESOURCE MATERIALS, *SECONDARY
SCHOOL MATHEMATICS, ARITHMETIC, CENTRAL
IOWA LOW-ACHIEVER MATHEMATICS PROJECT,
GRADE 7, GRADE 8, GRADE 9, LEARNING,
MATHEMATICS, SLOW LEARNERS.

ED 018 390 88
GLENN, EUEL
AXIOMS, EQUATIONS, AND PROBLEM SOLVING,
LEARNING ACTIVITY PACKAGE NO. 3, ALGEBRA I.
HUGHSON UNION HIGH SCHOOL, CALIF.
REPORT NUMBER DPSC 67-4401
PUB DATE JUL 67
EDRS PRICE MF-\$0.25 HC-\$2.15 41P.

DESCRIPTORS— *INDIVIDUAL INSTRUCTION,
*INSTRUCTION, *INSTRUCTIONAL MATERIALS,
*LEARNING, *MATHEMATICS, *PROBLEM SOLVING,
*SECONDARY SCHOOL MATHEMATICS, ALGEBRA,
GRADE 9.

ED 018 393
RESNICK, LAUREN B.
DESIGN OF AN EARLY LEARNING CURRICULUM.
PITTSBURGH UNIV., PA., LEARNING RES. AND DEV.
CTR.
PUB DATE DEC 67
EDRS PRICE MF-\$0.50 HC-\$3.45 67P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM
DEVELOPMENT, *ELEMENTARY EDUCATION,
*ELEMENTARY SCHOOL MATHEMATICS,
*LEARNING, *MATHEMATICS, INTELLECTUAL
DEVELOPMENT, LEARNING RESEARCH AND
DEVELOPMENT CENTER, PENNSYLVANIA,
PITTSBURGH, UNIVERSITY OF PITTSBURGH.

ED 018 394
DYE, DAVID L.
STATUS OF MATHEMATICS EDUCATION IN MINNE-
SOTA SCHOOLS.
MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL
PUB DATE 66
EDRS PRICE MF-\$0.25 HC-\$1.80 34P.

DESCRIPTORS— *CURRICULUM, *ELEMENTARY
SCHOOL MATHEMATICS, *INSERVICE TEACHER
EDUCATION, *MATHEMATICS, *MATHEMATICS
EDUCATION, *SECONDARY SCHOOL MATHEMATICS,
*TEACHER QUALIFICATIONS, EVALUATION,
MINNESOTA, OVERHEAD PROJECTORS, TEACHER
EDUCATION, TEXTBOOKS.

ED 018 398
FULBRIGHT, CARLETON B. AND OTHERS
DESCRIPTIVE OUTLINE OF MISSOURI'S IN-SERVICE
TEACHER EDUCATION PROGRAM IN ELEMEN-
TARY MATHEMATICS.
MISSOURI STATE DEPT. OF EDUCATION,
JEFFERSON CITY
PUB DATE 66
EDRS PRICE MF-\$0.25 HC-\$0.60 10P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *MATHEMATICS, *TEACHER EDUCATION, CURRICULUM, INSTRUCTIONAL MATERIALS, MISSOURI.

ED 019 004

TEACHING MACHINE STUDY. FINAL REPORT.

EVCO, ALBUQUERQUE, N.M.

REPORT NUMBER OEO-1290

PUB DATE 13 JAN 67

EDRS PRICE MF-\$0.25 HC-\$2.20 42P.

DESCRIPTORS— *JOB TRAINING, *MATHEMATICS INSTRUCTION, *PROGRAMED INSTRUCTION, *PROGRAMED MATERIALS, *TEACHING MACHINES, CONSERVATION CENTERS, EDUCATIONAL RESEARCH, GRADE 7, JOB CORPS, MAST.

ED 019 009 56

ARCHER, N. SIDNEY WOODLEN, MILTON C.

THE TEACHER, PROGRAMED MATERIALS, AND INSTRUCTIONAL INTERACTION—AN ASSESSMENT OF FIVE SELECTED CONDITIONS OF TEACHER AND PROGRAM INTEGRATION. FINAL REPORT.

PENNSYLVANIA STATE DEPT. OF PUBLIC INSTRUCTION

REPORT NUMBER BR-5-0889

PUB DATE MAY 67

GRANT OEG-7-48-0000-215

EDRS PRICE MF-\$0.25 HC-\$1.40 26P.

DESCRIPTORS— *ALGEBRA, *PROGRAMED INSTRUCTION, *PROGRAMED MATERIALS, *TEACHER ATTITUDES, *TEACHING METHODS, MANOVA, MATHEMATICS EDUCATION, SECONDARY EDUCATION, SRA, TEMAC.

ED 019 053

MANSFIELD, HENRY, JR.

A REPORT ON EXPERIMENTATION IN THE TEACHING OF THE FIRST COURSE IN ALGEBRA AT EL CAMINO COLLEGE.

PUB DATE 02 MAR 68

EDRS PRICE MF-\$0.25 HC-\$1.25 23P.

DESCRIPTORS— *ALGEBRA, *JUNIOR COLLEGES, *LARGE GROUP INSTRUCTION, *MATHEMATICS INSTRUCTION, *PROGRAMED MATERIALS, CALIFORNIA, CLASS SIZE, EL CAMINO COLLEGE, EXPERIMENTAL TEACHING, INSTRUCTIONAL INNOVATION.

ED 019 113 24

E, LESLIE P.

THE EFFECTS OF TWO VARIABLES ON THE PROBLEM-SOLVING ABILITIES OF FIRST-GRADE CHILDREN.

WISCONSIN UNIV., MADISON

REPORT NUMBER TR-21

REPORT NUMBER BR-5-0216

PUB DATE MAR 67

CONTRACT OEC-5-10-154

EDRS PRICE MF-\$0.25 HC-\$1.25 23P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *GRADE 1, *MATHEMATICS INSTRUCTION, *PROBLEM SOLVING, ARITHMETIC CURRICULUM, CURRICULUM EVALUATION, CURRICULUM RESEARCH, PROBLEM SETS.

ED 019 226 24

ROGLER, PAUL V.

WILMINGTON OPERATIONAL MATHEMATICS PROGRAM.

WILMINGTON PUBLIC SCHOOLS, DEL.

REPORT NUMBER BR-6-8786

EDRS PRICE MF-\$0.75 HC-\$8.55 169P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, DELAWARE, GEOMETRY, GRADE 9, WILMINGTON, WILMINGTON PUBLIC SCHOOLS.

ED 019 251

GENERAL REPORT OF MATHEMATICS CONFERENCE AND TWO SPECIFIC REPORTS, (TITLE SUPPLIED).

EDUCATIONAL SERVICES INC., WATERTOWN, MASS.

PUB DATE JUL 65

EDRS PRICE MF-\$0.25 HC-\$0.90 16P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROBLEMS, *MATHEMATICS, *TEACHER IMPROVEMENT, ABLE STUDENTS, CAMBRIDGE, COLLEGE MATHEMATICS, CULTURALLY DISADVANTAGED, ELEMENTARY SCHOOL MATHEMATICS, GEOMETRY, MASSACHUSETTS, MATHEMATICS EDUCATION, SECONDARY SCHOOL MATHEMATICS.

ED 019 613

BLAND, DAVID HORTON

A STUDY OF THE ACHIEVEMENT LEVELS IN READING AND COMPUTATION OF INCARCERATED ADULT MALES IN THE NORTH CAROLINA PRISON SYSTEM. NORTH CAROLINA UNIV., RALEIGH, N.C. STATE UNIV.

PUB DATE MAY 68

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT, *ARITHMETIC,
*CORRECTIVE INSTITUTIONS, *PRISONERS,
*READING, AGE DIFFERENCES, CRIME, EDU-
CATIONAL BACKGROUND, INDIVIDUAL CHAR-
ACTERISTICS, INSTITUTIONALIZED (PERSONS),
READING ACHIEVEMENT, STATISTICAL DATA.

ED 019 796 24
WARDROP, JAMES L. AND OTHERS
RESEARCH AND DEVELOPMENT ACTIVITIES IN R/I
UNITS OF TWO ELEMENTARY SCHOOLS OF
MANITOWOC, WISCONSIN, 1966—1967.
WISCONSIN UNIV., MADISON
REPORT NUMBER TR-35
REPORT NUMBER CRP-2850
REPORT NUMBER BR-5-0216
PUB DATE NOV 67
CONTRACT OEC-5-10-154
EDRS PRICE MF-\$0.25 HC-\$0.75 13P.

DESCRIPTORS— *ACHIEVEMENT, *EXCEPTIONAL
CHILD RESEARCH, *GROUPING (INSTRUCTIONAL
PURPOSES), *LANGUAGE ARTS, *MATHEMATICS,
ABILITY GROUPING, CONVENTIONAL INSTRUCTION,
EDUCATIONAL RESEARCH, EXPERIMENTAL
GROUPS, GRADE 3, GRADE 4, HETEROGENEOUS
GROUPING, HOMOGENEOUS GROUPING,
INDIVIDUAL INSTRUCTION, INDIVIDUALIZED
PROGRAMS, LEARNING CHARACTERISTICS,
SPELLING.

ED 019 855
COMPUTER FACILITIES FOR MATHEMATICS
INSTRUCTION.
NATIONAL COUNCIL OF TEACHERS OF
MATHEMATICS INC.
EDRS PRICE MF-\$0.25 HC NOT
AVAILABLE FROM EDRS. 51P.

DESCRIPTORS— *COMPUTER ASSISTED
INSTRUCTION, *COST EFFECTIVENESS,
*SECONDARY SCHOOL MATHEMATICS, *SYSTEMS
APPROACH, *TIME SHARING, ALGOL, ALGORITHMS,
COMPARATIVE ANALYSIS, COMPUTER SCIENCE,
EDUCATIONAL EQUIPMENT, ELECTRONIC
EQUIPMENT, FORTRAN, MATHEMATICS
INSTRUCTION, TELETYPE.

ED 019 888
COMPUTER ORIENTED MATHEMATICS, AN
INTRODUCTION FOR TEACHERS.
NATIONAL COUNCIL OF TEACHERS OF
MATHEMATICS INC.
PUB DATE 63
EDRS PRICE MF-\$1.00 HC NOT
AVAILABLE FROM EDRS. 212P.

DESCRIPTORS— *COMPUTERS, *MATHEMATICS,
*MATHEMATICS TEACHERS, *SECONDARY SCHOOL
MATHEMATICS, ANALOG COMPUTERS, BRAINIAC,
COMP, COMPIAC, COMPUTER PROGRAMS, DIGITAL
COMPUTERS, MATHEMATICAL ENRICHMENT,
MINIVAC, PAPAC.

ED 019 889
REVIEWS OF FILMS, REPORT OF SOME REVIEWING
COMMITTEES.
NATIONAL COUNCIL OF TEACHERS OF MATHE-
MATICS INC.
EDRS PRICE MF-\$0.25 HC NOT
AVAILABLE FROM EDRS. 29P.

DESCRIPTORS— *COLLEGE MATHEMATICS,
*INSTRUCTIONAL FILMS, *MATHEMATICS,
*MATHEMATICS INSTRUCTION, *SECONDARY
SCHOOL MATHEMATICS, NATIONAL COUNCIL OF
TEACHERS OF EDUCATION, REFERENCE
MATERIALS, RESOURCE GUIDES, TEACHER
TRAINING EDUCATION.

ED 020 063
CLENDEIN, MARY JOE
PROGRAMMED MATHEMATICS, CLOUDCROFT HIGH
SCHOOL
NEW MEXICO WESTERN STATES SMALL SCHOOLS
PROJECT
PUB DATE NOV 65
EDRS PRICE MF-\$0.25 HC-\$0.50 8P.

DESCRIPTORS— *ALGEBRA, *HIGH SCHOOLS,
*MODERN MATHEMATICS, *PROGRAMED
MATERIALS, *SMALL SCHOOLS, *INDIVIDUALIZED
PROGRAMS, MATHEMATICAL CONCEPTS,
MATHEMATICS, MATHEMATICS INSTRUCTION,
MATHEMATICS MATERIALS, PROGRAM
EFFECTIVENESS, PROGRAMED INSTRUCTION, PRO-
GRAMED TEXTS.

ED 020 064
MORROW, THOMAS J.
PROGRAMMED MATHEMATICS, DES MOINES HIGH
SCHOOL
NEW MEXICO WESTERN STATES SMALL SCHOOLS
PROJECT
PUB DATE NOV 65
EDRS PRICE MF-\$0.25 HC-0.50 8P.

DESCRIPTORS— *GROUPING (INSTRUCTIONAL
PURPOSES), *MATHEMATICS, *PROGRAM
EVALUATION, *PROGRAMED MATERIALS, *SMALL
SCHOOLS, CARRELS, CLASS ORGANIZATION,
COLLEGE PREPARATION, CREDITS, GRADING,
IOWA TESTS EDUC. DEV. MATHEMATICS
INSTRUCTION, MODERN MATHEMATICS,

SECONDARY SCHOOL MATHEMATICS. SLOW LEARNERS. SRA. STUDENT TEACHER RELATIONSHIP. TERMINAL STUDENTS. TMI GROLIER.

ED 020 114

PHILLIPS, GUSSIE

NUMBER AND OPERATION. HANDBOOK FOR ELEMENTARY MATHEMATICS WORKSHOPS.

ILLINOIS STATE OFF. SUPT. PUB. INSTR., SPRINGFIELD

PUB DATE 62

EDRS PRICE MF-\$1.00 HC-\$10.65 211P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSERVICE TEACHER EDUCATION. *MATHEMATICS. *TEACHER EDUCATION. MATHEMATICS EDUCATION. WORKSHOPS.

ED 020 115

WOODS, PAUL E.

BIBLIOGRAPHIES. HIGH SCHOOL MATHEMATICS.

ILLINOIS STATE OFF. SUPT. PUB. INSTR., SPRINGFIELD

PUB DATE SEP 66

EDRS PRICE MF-\$0.25 HC-\$2.10 40P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES. *BIBLIOGRAPHIES. *MATHEMATICS. *REFERENCE BOOKS. *SECONDARY SCHOOL MATHEMATICS. ALGEBRA. CALCULUS. GEOMETRY. PUBLICATIONS. TEXTBOOKS. TRIGONOMETRY.

ED 020 119 24

YOUNG, G.S.

A STUDY OF PRODUCTIVITY, RESEARCH ACTIVITIES, AND POSITIONS OF POST-WAR PH.D.'S IN MATHEMATICS.

REPORT NUMBER BR-5-8244

EDRS PRICE MF-\$0.25 HC-\$1.15 21P.

DESCRIPTORS— *GRADUATE STUDY. *MATHEMATICS. HIGHER EDUCATION, MANPOWER DEVELOPMENT, MATHEMATICIANS. MATHEMATICS TEACHERS. PERFORMANCE. RESEARCH. SCIENTIFIC MANPOWER. TEACHER EVALUATION.

ED 020 120

CLARK, JOHN LOVELASS, VERA

BIBLIOGRAPHIC GUIDE FOR ADVANCED PLACEMENT, MATHEMATICS.

NEW YORK STATE EDUCATION DEPT., ALBANY

PUB DATE 65

EDRS PRICE MF-\$0.25 HC-\$0.90 16P.

DESCRIPTORS— *ADVANCED PLACEMENT, *BIBLIOGRAPHIES. *INSTRUCTIONAL MATERIALS, *MATHEMATICS. *REFERENCE MATERIALS, AUDIO-VISUAL AIDS, NEW YORK STATE EDUCATION DEPARTMENT, SECONDARY SCHOOL MATHEMATICS.

ED 020 126

MARTIN, BERNARD LOYAL

SPATIAL VISUALIZATION ABILITIES OF CENTRAL WASHINGTON STATE COLLEGE PROSPECTIVE ELEMENTARY AND SECONDARY TEACHERS OF MATHEMATICS.

OREGON STATE UNIV., CORVALLIS

PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DOCTORAL THESES, *ELEMENTARY SCHOOL TEACHERS. *LEARNING, *SECONDARY SCHOOL TEACHERS. *TEACHER EDUCATION, ABILITY, CENTRAL WASHINGTON STATE COLLEGE, DIFFERENTIAL APTITUDE TEST OF SPACE RELATIONS, EVALUATION, MATHEMATICS, REVISED MINNESOTA PAPER FORM BOARD TEST, SEQUENTIAL TEST OF EDUCATIONAL PROGRESS (MATHEMATICS), SPACE ORIENTATION, WASHINGTON.

ED 020 327

BARLOW, MELVIN L. SCHILL, WILLIAM JOHN

THE ROLE OF MATHEMATICS IN ELECTRICAL-ELECTRONIC TECHNOLOGY.

CALIFORNIA UNIV., LOS ANGELES

PUB DATE 62

EDRS PRICE MF-\$0.75 HC-\$6.85 135P.

DESCRIPTORS— *EDUCATIONAL NEEDS, *ELECTRONICS TECHNICIANS. *MATHEMATICS, EMPLOYEE ATTITUDES, FIELD INTERVIEWS, JUNIOR COLLEGES, Q SORT, SURVEYS, TEACHER ATTITUDES, TECHNICAL EDUCATION, TECHNICAL MATHEMATICS.

ED 020 660

LERNER, SEYMOUR

THE COMPUTER AS AN AID IN TEACHING MATHEMATICS, AN INSTRUCTIONAL BULLETIN, GRADES 7-10.

LOS ANGELES CITY SCHOOLS, CALIF.

REPORT NUMBER ESEA-5

PUB DATE 67

EDRS PRICE MF-\$0.50 HC-\$5.45 107P.

DESCRIPTORS— *COMPUTER ASSISTED INSTRUCTION, *COMPUTERS, *MATHEMATICS INSTRUCTION,

ANALOG COMPUTERS. CONCEPT FORMATION. CONCEPT TEACHING. DIGITAL COMPUTERS. EDUCATIONAL OBJECTIVES. FORTRAN. INDIVIDUAL STUDY. MATHEMATICAL CONCEPTS. PROBLEM SOLVING. SELF ESTEEM. STUDENT BEHAVIOR. STUDY HABITS. TRANSPARENCIES. WYLE SCIENTIFIC.

ED 020 675 56

BROWN, O. ROBERT, JR.

ACHIEVEMENT OF STUDENTS FROM GROUPS INSTRUCTED BY PROGRAMED MATERIALS. CLASSROOM TEACHER, OR BOTH. COMPARATIVE STUDIES OF PRINCIPLES FOR PROGRAMMING MATHEMATICS IN AUTOMATED INSTRUCTION. TECHNICAL REPORT NO. 12.

ILLINOIS UNIV., URBANA

REPORT NUMBER NDEA-7A-806

PUB DATE JUL 64

EDRS PRICE MF-\$0.25 HC-\$2.00 38P.

DESCRIPTORS— *EQUATED SCORES. *MATHEMATICS INSTRUCTION. *PROGRAM EVALUATION. *PROGRAMED INSTRUCTION. *PROGRAMED TEXTS. ABILITY GROUPING. ACADEMIC ACHIEVEMENT. ALGEBRA. GRADE 9. INSTRUCTIONAL MATERIALS. PROGRAMED UNITS. SECONDARY SCHOOL MATHEMATICS. SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS. TEST OF GENERAL ABILITY.

ED 020 676

ROSEN, ELLEN F. STOLUROW, LAWRENCE M.

AN ATTEMPT TO FIND AN A PRIORI MEASURE OF STEP SIZE. COMPARATIVE STUDIES OF PRINCIPLES FOR PROGRAMMING MATHEMATICS IN AUTOMATED INSTRUCTION. TECHNICAL REPORT NO. 13.

ILLINOIS UNIV., URBANA

REPORT NUMBER NDEA-7A-806

PUB DATE JUL 64

EDRS PRICE MF-\$0.25 HC-\$1.35 25P.

DESCRIPTORS— *MATHEMATICS INSTRUCTION. *PROGRAMED INSTRUCTION. *PROGRAMED TEXTS. LEARNING DIFFICULTIES. LEARNING PROCESSES. MATHEMATICS MATERIALS. PROGRAMING PROBLEMS.

ED 020 683

SUPPES, PATRICK AND OTHERS

LINEAR STRUCTURAL MODELS FOR RESPONSE AND LATENCY PERFORMANCE IN ARITHMETIC. PSYCHOLOGY SERIES. TECHNICAL REPORT NO. 100. STANFORD UNIV., CALIF. INST. FOR MATH. STUDIES

PUB DATE 29 JUL 66

EDRS PRICE MF-\$0.50 HC-\$5.15 101P.

DESCRIPTORS— *ARITHMETIC. *LEARNING THEORIES. *PERFORMANCE FACTORS. *PROBLEM SOLVING. *RESPONSE MODE. COGNITIVE PROCESSES. COMPUTER ASSISTED INSTRUCTION. CONCEPT FORMATION. ELEMENTARY SCHOOL MATHEMATICS. FACTORY ANALYSIS. GRADE 3. GRADE 4. GRADE 5. GRADE 6. LEARNING PROCESSES. MEMORY. MODELS. PREDICTIVE ABILITY (TESTING). PROGRAMED INSTRUCTION. TEACHING MACHINES. TIME SHARING.

ED 020 801

ILIKA, JOSEPH

AGE OF ENTRANCE INTO THE FIRST GRADE AS RELATED TO ARITHMETIC ACHIEVEMENT.

LAMAR STATE COLL. OF TECHNOLOGY. BEAUMONT, TEX.

PUB DATE 7 FEB 68

EDRS PRICE MF-\$0.25 HC-\$0.90 16P.

DESCRIPTORS— *AGE DIFFERENCES. *ARITHMETIC. *CHILD DEVELOPMENT. *LATE SCHOOL ENTRANCE. *PERFORMANCE FACTORS. ABILITY IDENTIFICATION. ACADEMIC ACHIEVEMENT. ACHIEVEMENT RATING. CALIFORNIA ACHIEVEMENT TEST. EARLY ADMISSION. ELEMENTARY SCHOOL MATHEMATICS. ELEMENTARY SCHOOL STUDENTS. GROWTH PATTERNS. PROGRESSIVE ACHIEVEMENT TEST. SEX DIFFERENCES.

ED 020 885

FOLEY, JACK L.

SETS, SUB-SETS AND OPERATIONS.

PUB DATE NOV 67

EDRS PRICE MF-\$0.25 HC-\$1.95 37P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. *SET THEORY. ESEA TITLE 3. LOW ABILITY STUDENTS. STUDENT ACTIVITIES.

ED 020 886

FOLEY, JACK L.

PER CENT FRACTIONS.

PUB DATE NOV 67

EDRS PRICE MF-\$0.25 HC-\$2.00 38P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. ESEA TITLE 3. FRACTIONS. LOW ABILITY STUDENTS. STUDENT ACTIVITIES.

ED 020 887

FOLEY, JACK L.

MANEUVERS ON A GEO-BOARD.

PUB DATE NOV 67

EDRS PRICE MF-\$0.25 HC-\$1.25 23P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. ESEA TITLE 3. GEOMETRY. LOW ABILITY STUDENTS. STUDENT ACTIVITIES. TRIGONOMETRY.

ED 020 888

FOLEY, JACK L.

THE MATH GO-ROUND. A UNIT OF MATHASBORG.

PUB DATE NOV 67

EDRS PRICE MF-\$0.25 HC-\$1.55 29P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. DIVISION. ESEA TITLE 3. GEOMETRY. LOW ABILITY STUDENTS. MULTIPLICATION. STUDENT ACTIVITIES.

ED 020 889

FOLEY, JACK L.

VOLUME AND SURFACE AREA.

PUB DATE AUG 67

EDRS PRICE MF-\$0.25 HC-\$1.60 30P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. ESEA TITLE 3. GEOMETRY. LOW ABILITY STUDENTS. STUDENT ACTIVITIES.

ED 020 890

FOLEY, JACK L.

METRIC GEOMETRY LINEAR MEASURE.

PUB DATE AUG 67

EDRS PRICE MF-\$0.25 HC-\$2.55 49P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. ESEA TITLE 3. GEOMETRY. LOW ABILITY STUDENTS. MEASUREMENT STUDENT ACTIVITIES.

ED 020 891

FOLEY, JACK L.

IDEAS FROM NUMBER THEORY.

PUB DATE AUG 67

EDRS PRICE MF-\$0.25 HC-\$2.35 45P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. DIVISION. ESEA TITLE 3. LOW ABILITY STUDENTS. MULTIPLICATION. SET THEORY. STUDENT ACTIVITIES.

ED 020 892

FOLEY, JACK L.

METRIC GEOMETRY. CONCEPTS OF AREA MEASURE.

PUB DATE AUG 67

EDRS PRICE MF-\$0.25 HC-\$1.95 37P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. ESEA TITLE 3. GEOMETRY. LOW ABILITY STUDENTS. MEASUREMENT. STUDENT ACTIVITIES. TRIGONOMETRY.

ED 020 893

FOLEY, JACK L.

DIVISIBILITY TESTS.

PUB DATE AUG 67

EDRS PRICE MF-\$0.25 HC-\$1.80 34P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *MATHEMATICS. DIVISION. ESEA TITLE 3. INSTRUCTIONAL MATERIALS. LOW ABILITY STUDENTS. STUDENT ACTIVITIES.

ED 020 894

FOLEY, JACK L.

CURVES. VERTICES. KNOTS AND SUCH.

PUB DATE AUG 67

EDRS PRICE MF-\$0.50 HC-\$3.35 65P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. ESEA TITLE 3. LOW ABILITY STUDENTS. STUDENT ACTIVITIES. TOPOLOGY.

ED 020 895

FOLEY, JACK L.

ANGLES. MEASURES.

PUB DATE AUG 67

EDRS PRICE MF-\$0.25 HC-\$1.85 35P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. ESEA TITLE 3. LOW ABILITY STUDENTS. STUDENT ACTIVITIES. TRIGONOMETRY.

ED 020 896

FOLEY, JACK L.

ACTION WITH WHOLE NUMBERS.

PUB DATE AUG 67

EDRS PRICE MF-\$0.50 HC-\$3.05 59P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. ADDITION. ARITHMETIC. DIVISION. ESEA TITLE 3. LOW ABILITY STUDENTS. MULTIPLICATION. STUDENT ACTIVITIES. SUBTRACTION.

ED 020 897

FOLEY, JACK L.

ACTION WITH FRACTIONS. ADDITION AND SUBTRACTION.

PUB DATE AUG 67

EDRS PRICE MF-\$0.25 HC-\$1.80 34P.

DESCRIPTORS— *ARITHMETIC. *ELEMENTARY SCHOOL MATHEMATICS. *INSTRUCTIONAL MATERIALS. *MATHEMATICS. ADDITION. ESEA TITLE 3. FRACTIONS. LOW ABILITY STUDENTS. STUDENT ACTIVITIES. SUBTRACTION.

ED 021 027

SUTTON, MACK C. WYKES, MURRAY L.

BASIC MATHEMATICS FOR ELECTRICITY, ELEC-

TRICAL, AND ELECTRONIC CONTROL, UNIT 1, ASSIGNMENTS.

TEXAS UNIV., AUSTIN, DEPT. OF IND. EDUC.

TEXAS EDUCATION AGENCY, AUSTIN, IND. EDUC. DIV.

PUB DATE JUN 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELECTRICAL OCCUPATIONS. *STUDY GUIDES. *TRADE AND INDUSTRIAL EDUCATION, ADULT VOCATIONAL EDUCATION, INDIVIDUAL INSTRUCTION, PRACTICAL MATHEMATICS.

ED 021 028

SUTTON, MACK C. WYKES, MURRAY L.

BASIC MATHEMATICS FOR ELECTRICITY, ELECTRICAL, AND ELECTRONIC CONTROL, UNIT 1, INSTRUCTOR'S GUIDE.

TEXAS UNIV., AUSTIN, DEPT. OF IND. EDUC.

TEXAS EDUCATION AGENCY, AUSTIN, IND. EDUC. DIV.

PUB DATE SEP 60

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ANSWER KEYS. *ELECTRICAL OCCUPATIONS. *TEACHING GUIDES. *TRADE AND INDUSTRIAL EDUCATION, ADULT VOCATIONAL EDUCATION, INDIVIDUAL INSTRUCTION, PRACTICAL MATHEMATICS.

III. SCIENCE AND MATHEMATICS EDUCATION

ED 013 223
REGULATIONS AND SYLLABUSES, 1968.
ASSOCIATED EXAMINING BOARD. ALDERSHOT.
HAMPSHIRE
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EVALUATION. *SECONDARY EDUCATION. *STUDENT EVALUATION. ANATOMY. ASSOCIATED EXAMINING BOARD. BIOLOGY. BOTANY. CHEMISTRY. EARTH SCIENCE. ELECTRONICS. ENGLAND. ENGLISH. GENERAL SCIENCE. GEOLOGY. HISTORY. INDUSTRIAL ARTS. LATIN. MATHEMATICS. MODERN LANGUAGES. MUSIC. PHYSICS. PHYSIOLOGY. SECONDARY SCHOOL MATHEMATICS. SECONDARY SCHOOL SCIENCE. ZOOLOGY.

ED 013 224
LEVINE, MILTON AND OTHERS
AMERICAN SCIENCE MANPOWER, 1964—A REPORT OF THE NATIONAL REGISTER OF SCIENTIFIC AND TECHNICAL PERSONNEL.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C. F
REPORT NUMBER NSF-66-29
PUB DATE 66
EDRS PRICE MF-\$1.00 HC-\$11.40 226P.

DESCRIPTORS— *HUMAN RESOURCES. *INDIVIDUAL CHARACTERISTICS. *OCCUPATIONAL INFORMATION. *SCIENTIFIC MANPOWER. *SURVEYS. AGRICULTURE. BIOLOGY. CHEMISTRY. COLLEGE SCIENCE. EARTH SCIENCE. ECONOMICS. EDUCATIONAL BACKGROUND. EMPLOYMENT EXPERIENCE. FEMALES. GEOGRAPHIC DISTRIBUTION. LINGUISTICS. MALES. MATHEMATICS. NATIONAL SCIENCE FOUNDATION. PERSONNEL DATA. PHYSICS. PSYCHOLOGY. SALARIES. SCIENCE TEACHERS. SCIENTISTS.

ED 014 419
LOVELL, K.
THE GROWTH OF BASIC MATHEMATICAL AND SCIENTIFIC CONCEPTS IN CHILDREN.
PUB DATE 61
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONCEPT FORMATION. *ELEMENTARY SCHOOL SCIENCE. *LEARNING THEORIES. *TEXTBOOKS. EDUCATIONAL PSYCHOLOGY. ELEMENTARY SCHOOL MATHEMATICS. INTELLECTUAL DEVELOPMENT.

MATHEMATICS. MATTER. MEASUREMENT. SPACE. TIME. WEIGHT.

ED 014 433 24
MERMELSTEIN, EGON AND OTHERS
THE EFFECT OF VARIOUS TRAINING TECHNIQUES ON THE ACQUISITION OF THE CONCEPT OF CONSERVATION OF SUBSTANCE. FINAL REPORT.
HOFSTRA UNIV., HEMPSTEAD, N.Y.
REPORT NUMBER BR-6-8300
PUB DATE FEB 67
CONTRACT OEC-6-8300-2-12-1
EDRS PRICE MF-\$0.25 HC-\$2.10 40P.

DESCRIPTORS— *COGNITIVE DEVELOPMENT. *COGNITIVE PROCESSES. *CONCEPT FORMATION. *ELEMENTARY SCHOOL MATHEMATICS. *ELEMENTARY SCHOOL SCIENCE. *KINDERGARTEN. *LEARNING THEORIES. MATHEMATICS. PIAGET.

ED 014 438
LOCKARD, J. DAVID AND OTHERS
REPORT OF THE INTERNATIONAL CLEARINGHOUSE ON SCIENCE AND MATHEMATICS CURRICULAR DEVELOPMENTS, 1967.
MARYLAND UNIV., COLLEGE PARK. SCIENCE TEACHING CTR
AMERICAN ASSN. FOR THE ADVANCEMENT OF SCIENCE
PUB DATE 67
EDRS PRICE MF-\$1.75 HC-\$22.50 448P.

DESCRIPTORS— *COLLEGE SCIENCE. *CURRICULUM DEVELOPMENT. *EDUCATIONAL PROGRAMS. *ELEMENTARY SCHOOL SCIENCE. *INTERNATIONAL EDUCATION. *MATHEMATICS EDUCATION. *SCIENCE EDUCATION. *SECONDARY SCHOOL SCIENCE. BIBLIOGRAPHIES. BIOLOGY. CHEMISTRY. EARTH SCIENCE. GENERAL SCIENCE. INSTRUCTIONAL MATERIALS. NATIONAL SCIENCE FOUNDATION. PHYSICAL SCIENCES. PHYSICS. UNESCO.

ED 015 877
SCIENCE EDUCATION INFORMATION REPORT. BIBLIOGRAPHY 1. INSTRUCTIONAL PROCEDURES. GENERAL BIBLIOGRAPHY SERIES.
OHIO STATE UNIV., COLUMBUS. ERIC INFO. ANAL. CTR.
PUB DATE DEC 67
EDRS PRICE MF-\$0.50 HC-\$3.30 64P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *AUDIOVISUAL AIDS, *BIOLOGY, *CHEMISTRY, *COLLEGE SCIENCE, *CRITICAL THINKING, *ELEMENTARY SCHOOL SCIENCE, *FILMS, *GENERAL EDUCATION, *INSTRUCTION, *PHYSICAL SCIENCES, *PHYSICS, *PROBLEM SOLVING, *PROGRAMED INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHING METHODS, EARTH SCIENCE, GENERAL SCIENCE, MATHEMATICS EDUCATION, SCIENCE ACTIVITIES.

ED 015 878
SCIENCE EDUCATION INFORMATION REPORT.
BIBLIOGRAPHY 5. ACHIEVEMENT. GENERAL
BIBLIOGRAPHY SERIES.
OHIO STATE UNIV., COLUMBUS, ERIC INFO. ANAL.
CTR.
PUB DATE DEC 67
EDRS PRICE MF-\$0.25 HC-\$1.80 34P.

DESCRIPTORS— *ABILITY GROUPING, *ACADEMIC ACHIEVEMENT, *BIOLOGY, *CHEMISTRY, *COLLEGE SCIENCE, *CRITICAL THINKING, *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *INSTRUCTION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, ABLE STUDENTS, CONCEPT FORMATION, GENERAL SCIENCE, MATHEMATICS EDUCATION, PHYSICAL SCIENCES, STUDENT INTERESTS, TEACHING METHODS.

ED 015 879
SCIENCE EDUCATION INFORMATION REPORT.
BIBLIOGRAPHY 2. TEACHER EDUCATION. GENERAL
BIBLIOGRAPHY SERIES.
OHIO STATE UNIV., COLUMBUS, ERIC INFO. ANAL.
CTR.
PUB DATE DEC 67
EDRS PRICE MF-\$0.25 HC-\$2.35 45P.

DESCRIPTORS— *BIOLOGY, *CHEMISTRY, *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, *EARTH SCIENCE, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *PHYSICS, *PROGRAM DESCRIPTIONS, *PROGRAM EVALUATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, GRADUATE STUDY, MATHEMATICS EDUCATION, METHODS COURSES, PHYSICAL SCIENCES, TEACHER CERTIFICATION, TEACHER CHARACTERISTICS.

ED 015 880
SCIENCE EDUCATION INFORMATION REPORT,

BIBLIOGRAPHY 3. EQUIPMENT AND MATERIALS.
GENERAL BIBLIOGRAPHY SERIES.
OHIO STATE UNIV., COLUMBUS, ERIC INFO. ANAL.
CTR.
PUB DATE DEC 67
EDRS PRICE MF-\$0.50 HC-\$3.15 61P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *CHEMISTRY, *COLLEGE SCIENCE, *EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *FILMS, *LABORATORY EQUIPMENT, *LABORATORY MANUALS, *PHYSICS, *PROGRAMED INSTRUCTION, *SCIENCE ACTIVITIES, *SCIENCE EQUIPMENT, *SCIENCE MATERIALS, *SECONDARY SCHOOL SCIENCE, *TEXTBOOKS, LABORATORY SAFETY, MATHEMATICS EDUCATION, OVERHEAD PROJECTORS, PHYSICAL SCIENCES.

ED 016 610
FOOKS, JOYCE LANE
THE COLLEGE COMMISSIONS.
PUB DATE JUL 67
EDRS PRICE MF-\$0.25 HC-\$1.20 22P.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, AGRICULTURE, BIOLOGY, CHEMISTRY, COLLEGE SCIENCE COMMISSIONS, ENGINEERING, GEOGRAPHY, GEOLOGY, MATHEMATICS, PHYSICS, UNDERGRADUATE STUDY.

ED 016 628
MALINOWSKY, HAROLD ROBERT
SCIENCE AND ENGINEERING REFERENCE
SOURCES, A GUIDE FOR STUDENTS AND
LIBRARIANS.
KANSAS UNIV., LAWRENCE
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIBLIOGRAPHIES, *ENGINEERING, *INFORMATION SOURCES, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *SCIENCES, LIBRARY MATERIALS, REFERENCE BOOKS, REFERENCE MATERIALS.

ED 016 634
THE MAN MADE WORLD, TEACHER'S MANUAL.
COMMISSION ON ENGINEERING EDUC., WASHINGTON, D.C.
PUB DATE 67
EDRS PRICE MF-\$1.50 HC-\$20.05 399P.

DESCRIPTORS— *COMPUTERS, *CURRICULUM, *CURRICULUM DEVELOPMENT, *ENGINEERING, *MATHEMATICS, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, *TECHNOLOGY, ALGEBRA, BIBLIOGRAPHIES, EDUCATIONAL OBJECTIVES, SCIENCE ACTIVITIES.

ED 016 635

THE MAN MADE WORLD. LABORATORY MANUAL.
COMMISSION ON ENGINEERING EDUC., WASHINGTON, D.C.

PUB DATE 67

EDRS PRICE MF-\$0.75 HC-\$6.70 132P.

DESCRIPTORS— *COMPUTERS, *CURRICULUM DEVELOPMENT, *INSTRUCTIONAL MATERIALS, *LABORATORY MANUALS, *MATHEMATICS, *PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TECHNOLOGY.

ED 017 462

DURST, LINCOLN K.

RECOMMENDATIONS ON THE UNDERGRADUATE MATHEMATICS PROGRAM FOR ENGINEERS AND PHYSICISTS.

COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATH.

PUB DATE JAN 67

EDRS PRICE MF-\$0.25 HC-\$2.70 52P.

DESCRIPTORS— *COLLEGE MATHEMATICS, *CURRICULUM DEVELOPMENT, *ENGINEERING, *MATHEMATICS, *PHYSICS, *UNDERGRADUATE STUDY, CURRICULUM, HIGHER EDUCATION, INSTRUCTION, MATHEMATICAL ASSOCIATION OF AMERICA, NATIONAL SCIENCE FOUNDATION.

ED 017 475

RAZIK, TAHER A.

BIBLIOGRAPHY OF CREATIVITY STUDIES AND RELATED AREAS.

STATE UNIV. OF N.Y., BUFFALO

PUB DATE 65

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIBLIOGRAPHIES, *CREATIVITY, *DISCOVERY PROCESSES, *ENVIRONMENTAL INFLUENCES, *HEREDITY, *MOTIVATION, *PROBLEM SOLVING, *RESEARCH METHODOLOGY, *SCIENCES, *TESTS, ABILITY IDENTIFICATION, ACADEMIC ACHIEVEMENT, ELEMENTARY EDUCATION, HIGHER EDUCATION, INSTRUCTION, LEARNING, MATHEMATICS, SECONDARY EDUCATION, SOCIOECONOMIC INFLUENCES.

ED 018 239

GOODMAN, ARNOLD F. AND OTHERS

DOD USER-NEEDS STUDY. PHASE II—FLOW OF SCIENTIFIC AND TECHNICAL INFORMATION WITHIN THE DEFENSE INDUSTRY. FINAL REPORT. VOLUME II. A. TECHNICAL DESCRIPTION, B. TECHNICAL APPENDICES. NORTH AMERICAN AVIATION INC., ANAHEIM, CALIF.

REPORT NUMBER C6-2422/030-VOL-2

PUB DATE 30 NOV 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INFORMATION DISSEMINATION, *INFORMATION UTILIZATION, *INTERVIEWS, *STATISTICAL ANALYSIS, *USE STUDIES, COMMUNICATION (THOUGHT TRANSFER), COMPUTER PROGRAMS, CORRELATION, DATA COLLECTION, DEPARTMENT OF DEFENSE (DOD), DIFFUSION, ENGINEERS, INFORMATION NEEDS, INFORMATION SOURCES, INPUT OUTPUT ANALYSIS, MANUALS, MATHEMATICAL MODELS, QUESTIONNAIRES, SCIENTIFIC PERSONNEL, SURVEYS.

ED 018 240

GOODMAN, ARNOLD F. AND OTHERS

DOD USER-NEEDS STUDY. PHASE II—FLOW OF SCIENTIFIC AND TECHNICAL INFORMATION WITHIN THE DEFENSE INDUSTRY. FINAL REPORT. VOLUME III, A. FREQUENCY DISTRIBUTIONS AND CORRELATION. B. RELATIONSHIP AND COMPARISON.

NORTH AMERICAN AVIATION INC., ANAHEIM, CALIF.

REPORT NUMBER C6-2442/030-VOL-3

PUB DATE 30 NOV 66

DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *MATHEMATICAL MODELS, *STATISTICAL ANALYSIS, *USE STUDIES, COMMUNICATION (THOUGHT TRANSFER), COMPARATIVE STATISTICS, CORRELATION, DATA ANALYSIS, DEPARTMENT OF DEFENSE (DOD), ENGINEERS, INFORMATION DISSEMINATION, INFORMATION NEEDS, INFORMATION UTILIZATION, INPUT OUTPUT ANALYSIS, MEASUREMENT TECHNIQUES, PSYCHOMETRICS, SCIENTIFIC PERSONNEL, STATISTICAL DATA, SURVEYS.

ED 018 373

KING, L.C.

THE UNDERGRADUATE MATHEMATICS PROGRAM OF STUDENTS IN CHEMISTRY. A REPORT OF A CONFERENCE SPONSORED JOINTLY BY THE

ADVISORY COUNCIL ON COLLEGE CHEMISTRY AND
THE COMMITTEE ON THE UNDERGRADUATE
PROGRAM IN MATHEMATICS.
ADVISORY COUNCIL ON COLL. CHEMISTRY
REPORT NUMBER PUB NO-26
COMMITTEE ON THE UNDERGRADUATE PROGRAM
IN MATH.

PUB DATE JUN 67
EDRS PRICE MF-\$0.25 HC-\$0.70 12P.

DESCRIPTORS— *CHEMISTRY. *COLLEGE SCIENCE.
*CONFERENCE REPORTS. *COURSE CONTENT.
*CURRICULUM DEVELOPMENT. *EDUCATIONAL
PROGRAMS. *MATHEMATICS. *PHYSICAL SCIENCES.
*UNDERGRADUATE STUDY. ADVISORY COUNCIL ON
COLLEGE CHEMISTRY. ALGEBRA. CALCULUS.
COMMITTEE ON THE UNDERGRADUATE PROGRAM
IN MATHEMATICS.

ED 018 397
JAUSS, RUSSELL
MATH-SCIENCE INSTRUCTIONAL MATERIALS.
EDUCATIONAL MEDIA CENTER, MONTEVIDEO,
MINN.

PUB DATE SEP 67
EDRS PRICE MF-\$0.75 HC-\$8.70 172P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE.
*FILMS. *FILMSTRIPS. *INSTRUCTIONAL MA-
TERIALS. *SCIENCE EDUCATION. *SECONDARY
SCHOOL SCIENCE. ADULT EDUCATION. AUDIO-
VISUAL AIDS. BIOLOGY. CHEMISTRY. COLLEGE
SCIENCE. CONSERVATION EDUCATION. GENERAL
SCIENCE. HEALTH EDUCATION. MATHEMATICS
EDUCATION. PHYSICAL SCIENCES. PHYSICS.

ED 018 402
COOPERATIVE COLLEGE-SCHOOL SCIENCE PRO-
GRAM. 1968 DIRECTORY. PROJECTS TO ADVANCE
SCHOOL AND SCHOOL SYSTEM INSTRUCTION IN
MATHEMATICS AND SCIENCE.
NATIONAL SCIENCE FOUNDATION, WASHINGTON,
D.C.

REPORT NUMBER E-68-P-23
PUB DATE 68
EDRS PRICE MF-\$0.25 HC-\$1.20 22P.

DESCRIPTORS— *CURRICULUM. *CURRICULUM
DEVELOPMENT. *DIRECTORIES. *ELEMENTARY
SCHOOL MATHEMATICS. *ELEMENTARY SCHOOL
SCIENCE. *FEDERAL AID. *FEDERAL PROGRAMS.
*FOUNDATION PROGRAMS. *SCIENCE COURSE
IMPROVEMENT PROJECT. *SECONDARY SCHOOL
MATHEMATICS. *SECONDARY SCHOOL SCIENCE.

COOPERATIVE COLLEGE SCHOOL SCIENCE
PROGRAM. INSTRUCTION. MATHEMATICS.
NATIONAL SCIENCE FOUNDATION. TEACHER
EDUCATION.

ED 019 211
BEDWELL, THOMAS HOWARD
A CRITICAL ANALYSIS OF THE PHYSICAL SCIENCE
AND SUPPORTING MATHEMATICS INSTRUCTION IN
THE SECONDARY SCHOOLS OF SOUTH DAKOTA.
NEBRASKA UNIV., LINCOLN
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT.
*CHEMISTRY. *CURRICULUM. *DOCTORAL THESES.
*EDUCATIONAL PROGRAMS. *MATHEMATICS.
COOPERATIVE CHEMISTRY TEST. COOPERATIVE
MATHEMATICS TEST. COOPERATIVE PHYSICS
TEST. PHYSICS. SCIENCE COLLEGE ABILITY TEST.
SECONDARY SCHOOL SCIENCE. SEQUENTIAL TEST
OF EDUCATIONAL PROGRESS. SOUTH DAKOTA.
STUDENT CHARACTERISTICS

ED 019 243
THE MAN MADE WORLD. A HIGH SCHOOL COURSE
ON THE THEORIES AND TECHNIQUES WHICH
CONTRIBUTE TO OUR TECHNOLOGICAL
CIVILIZATION.
COMMISSION ON ENGINEERING EDUC., WASH-
INGTON, D.C.
PUB DATE 67
EDRS PRICE MF-\$2.50 HC-\$26.65 531P.

DESCRIPTORS— *COMPUTERS. *CURRICULUM
DEVELOPMENT. *ENGINEERING. *INSTRUCTIONAL
MATERIALS. *PHYSICAL SCIENCES. ALGEBRA.
CURRICULUM. EDUCATIONAL OBJECTIVES.
MATHEMATICS. SCIENCE ACTIVITIES. SECONDARY
SCHOOL SCIENCE. TECHNOLOGY. TEXTBOOKS.

ED 020 106
CONGRESS ON SCIENCE TEACHING AND ECONOMIC
GROWTH.
INTER-UNION COMMISSION ON THE TEACHING OF
SCIENCE.
PUB DATE 65
EDRS PRICE MF-\$0.25 HC-\$2.75 53P.

DESCRIPTORS— *CONFERENCE REPORTS. *CUR-
RICULUM. *INTERNATIONAL EDUCATION. *MATHE-
MATICS EDUCATION. *SCIENCE EDUCATION.
*TEACHER EDUCATION. *TECHNICAL EDUCATION.
BIOLOGY. CHEMISTRY. DEVELOPING NATIONS.
FORD FOUNDATION. GEOLOGY. INTERNATIONAL

COUNCIL OF SCIENTIFIC UNIONS, MATHEMATICS,
NATURAL RESOURCES, PHYSICS, SOCIOECONOMIC
PROBLEMS, TECHNOLOGY, UNITED NATIONS
ORGANIZATION FOR EDUCATION SCIENCE AND
CULTURE.

ED 020 133

ERICKSEN, STANFORD C.

DEVELOPMENT AND EXPERIMENT IN COLLEGE
TEACHING, A COMPENDIUM OF REPORTS ON
EDUCATIONAL EXPERIMENT AND DEVELOPMENT
IN THE DISCIPLINES AND PROFESSIONAL SCHOOLS
AT 11 MIDWESTERN UNIVERSITIES.

REPORT NUMBER REPORT-NO-4

PUB DATE 68

EDRS PRICE MF-\$0.25 HC-\$2.05 39P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT,
*HIGHER EDUCATION, *INSTRUCTION, *PROGRAM
DESCRIPTIONS, ADMINISTRATIVE ORGANIZATION,
BOTANY, CHEMISTRY, COMPUTER ASSISTED
INSTRUCTION, EDUCATIONAL PROGRAMS,
EDUCATIONAL RESEARCH, ENGINEERING,
GRADUATE STUDY, LANGUAGE ARTS,
MATHEMATICS, NURSING, PHYSICS, PSYCHOLOGY,
SOCIOLOGY, SPEECH, TEACHER EDUCATION,
TEACHING METHODS, TELEVISED INSTRUCTION,
UNDERGRADUATE STUDY.

ED 020 143

LOCKARD, J. DAVID

SIXTH REPORT OF THE INTERNATIONAL CLEARING-
HOUSE ON SCIENCE AND MATHEMATICS CUR-
RICULUM DEVELOPMENTS 1968.

MARYLAND UNIV., COLLEGE PARK. SCIENCE
TEACHING CTR

AMERICAN ASSN. FOR THE ADVANCEMENT OF
SCIENCE

PUB DATE MAY 68

EDRS PRICE MF-\$2.00 HC-\$24.05 479P.

DESCRIPTORS— *COLLEGE SCIENCE, *CUR-
RICULUM DEVELOPMENT, *EDUCATIONAL PRO-
GRAMS, *ELEMENTARY SCHOOL SCIENCE, *INTER-
NATIONAL EDUCATION, *MATHEMATICS
EDUCATION, *SCIENCE EDUCATION, *SECONDARY

SCHOOL SCIENCE, AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE, ANTHRO-
POLOGY, BIBLIOGRAPHIES, BIOLOGY, CHEMISTRY,
EARTH SCIENCE, GENERAL SCIENCE, INSTRU-
CTIONAL MATERIALS, PHYSICAL SCIENCES, PHYSICS,
SCIENCE COURSE IMPROVEMENT PROJECT.

ED 020 147 24

SMOCK, CHARLES D. BELOVICZ, GRETCHEN
UNDERSTANDING OF CONCEPTS OF PROBABILITY
THEORY BY JUNIOR HIGH SCHOOL CHILDREN.
FINAL REPORT.

PURDUE UNIV., LAFAYETTE, IND.

REPORT NUMBER BR-6-1295

PUB DATE FEB 68

GRANT OEG-3-6-061295-1739

EDRS PRICE MF-\$0.50 HC-\$3.15 61P.

DESCRIPTORS— *COGNITIVE DEVELOPMENT,
*JUNIOR HIGH SCHOOLS, *LEARNING,
*MATHEMATICS, *PROBABILITY, BRIM SCALE,
CONCEPT FORMATION, MATHEMATICS
EDUCATION, SCIENCE EDUCATION.

ED 020 911

QUILLING, MARY AND OTHERS

RESEARCH AND DEVELOPMENT ACTIVITIES IN R
AND I UNITS OF TWO ELEMENTARY SCHOOLS OF
MILWAUKEE, WISCONSIN, 1966—1967.

WISCONSIN UNIV., MADISON

REPORT NUMBER BR-5-0216

PUB DATE FEB 68

CONTRACT OEC-5-10-154

EDRS PRICE MF-\$0.25 HC-\$1.25 23P.

DESCRIPTORS— *CONCEPT FORMATION, *ELE-
MENTARY EDUCATION, *INSTRUCTION, *MATHE-
MATICS, *TEACHING METHODS, ARITHMETIC,
CLOSED CIRCUIT TELEVISION, COGNITIVE
DEVELOPMENT, COOPERATIVE PRIMARY TEST IN
MATHEMATICS, EDUCATIONAL PROGRAMS,
GRADE 1, GRADE 4, GRADE 5, GRADE 6, INDIVIDUAL
INSTRUCTION, LEARNING, RESEARCH AND
DEVELOPMENT CENTERS, SCIENTIFIC CONCEPTS,
TEACHING PROCEDURES, WISCONSIN RESEARCH
AND DEVELOPMENT CTR.